PROVINCE OF BRITISH COLUMBIA

Minister of Public Works

REPORT

FOR THE FISCAL YEAR

1972/73

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in right of the Province of British Columbia.
1974

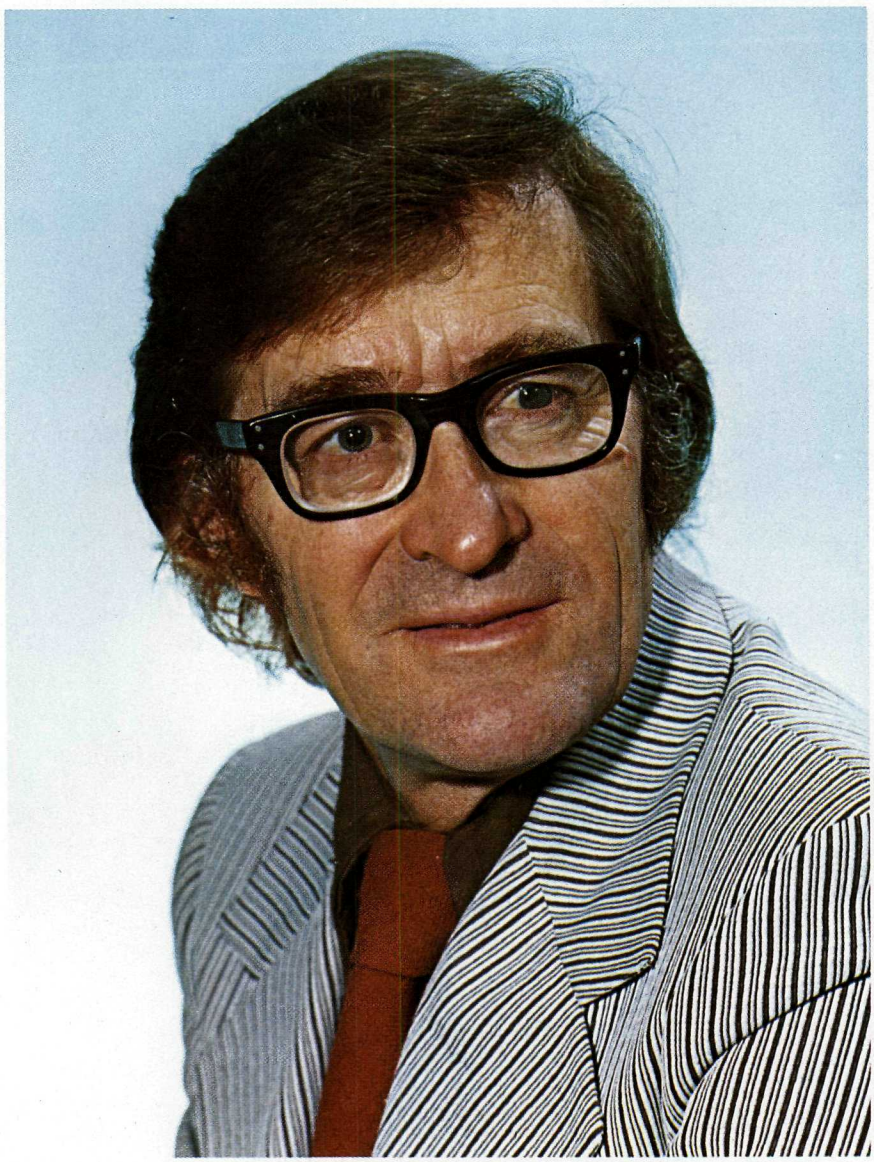
To the Honourable WALTER STEWART OWEN, Q.C., LL.D.,
Lieutenant-Governor of the Province of British Columbia.

MAY IT PLEASE YOUR HONOUR:

Herewith I beg respectfully to submit the Annual Report of the Department of Public Works for the fiscal year ended March 31, 1973, in compliance with the provisions of the *Public Works Act*.

WILLIAM L. HARTLEY
Minister of Public Works

Office of the Minister of Public Works,
Parliament Buildings, December 30, 1973.



Hon. W. L. Hartley, Minister of Public Works.

MINISTER'S COMMENT

The term covered in the attached Report is marked by change. Arnold E. Webb retired as Deputy Minister after almost 15 years of service in this Department. George L. Giles was promoted from the position of Director of Design to Deputy Minister.

In the months ahead we hope to be able to plan and construct between one-half million and one million square feet of office space in Victoria so that many of the departments can move into Government-owned and operated space.

We plan to get the Block 51, 61, 71 project in Vancouver well under way in this next year so that more adequate Court and Government services will be available as soon as possible.

Since coming into office we have been made aware of the many public concerns with the Electrical Inspection services provided by this Department. In order that we might determine the most desirable course of action to satisfy those concerns and to give the public the maximum opportunity of participating, we have initiated a public inquiry under the Chairmanship of Dr. Hugh L. Keenleyside. We anticipate that the results of this inquiry will be made public during the Spring Session of the Legislature in 1974.

W. L. HARTLEY
Minister of Public Works

"We must lead, not follow."

—Department of Public Works.

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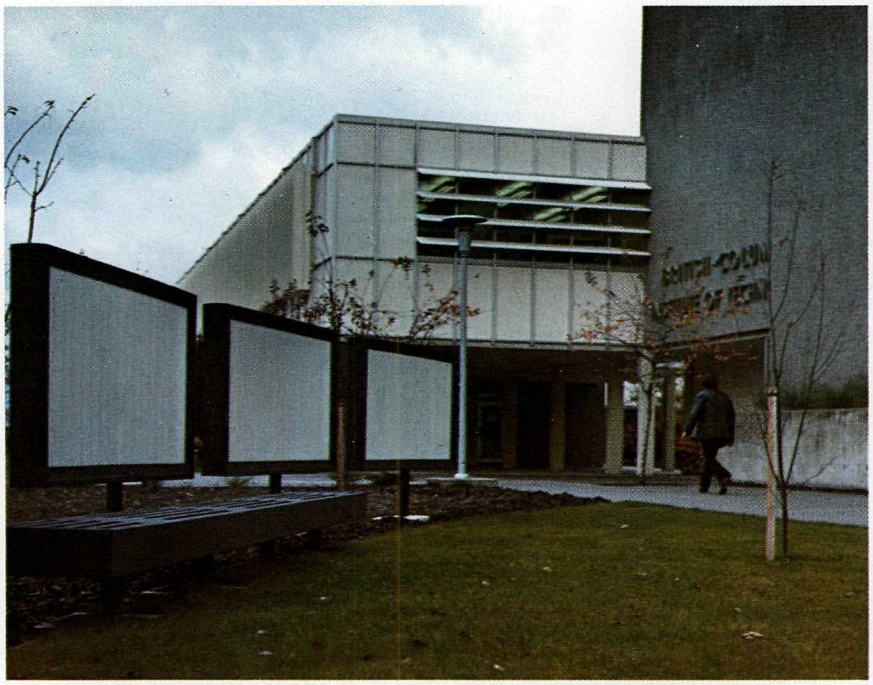


Landscaping, British Columbia Institute of Technology, Burnaby.

Horticultural Centre, British Columbia Institute of Technology, Burnaby.

REPORT OF THE DEPUTY MINISTER

The Honourable William L. Hartley,
Minister of Public Works,
Parliament Buildings,
Victoria, B.C.

Sir: I have the honour to submit for your consideration the Annual Report of the Department for the fiscal year ended March 31, 1973.

Elsewhere in this Report will be those of the heads of divisions which set out the work accomplished and planned, tenders called and accepted, and Departmental accounts.

Since the work involved in this Report was largely produced under the direct supervision of my predecessor, A. E. Webb, it is appropriate, I believe, to pay tribute here to his services to this Department.

Arnold Evan Webb served this Department from August 1, 1958, until January 15, 1973, and during this time saw this Department grow from a total work-force of 639 to a work-force of 1,950; saw its budget grow from almost $7 million to approximately $31½ million. He administered a programme of major development which included many innovative improvements. During this entire period he was a member of the Purchasing Commission and also a member of the Capital Improvement District Commission as well as serving on many Centennial Committees, and also Chairman of the Museum Steering Committee.

He served this Department most loyally and well and we wish him long life and happiness in his retirement.

Yours respectfully,

G. L. GILES
Deputy Minister

REPORT OF THE DIRECTOR OF DESIGN

This section of the Public Works Report has in the past been a review of the Design Division's work during the previous year. Since that information is contained in other sections of this Report, and since this is the first report from myself, as Director of Design, it will, I hope, be acceptable to vary from the established format, and to attempt to enunciate a design policy for the Design Divisions of the Department of Public Works. This policy is not original with me. It is, I believe, part of the presently emerging systems of ideas of this Department, and compatible with those systems which the present Government proposed, and to which society gave its backing.

No system with which we work in the Department of Public Works is a closed system. All of them are related to other systems and are interdependent on them. It has been demonstrated repeatedly how small changes in the environment can drastically affect the whole of the ecology. It is now time that building projects be examined, not only as artifacts in which to carry out the functions of the user, but as an addition to a neighbourhood, a town, or a district. It has been accepted that no building does damage to its occupants. It is now asked that each building not only does no damage, but contributes positively to the individual and to the social complex in which it is situated. We have already been requested by the Corrections Service not to increase the size of any of their institutions; that the conventional twin cities of prisoners and guards produce no mutual benefits. Mental Health has been moving in the same direction. Major buildings in major cities create problems, and the public has reacted to some of them. Minor buildings in minor cities can also create problems or they can contribute to the urban environment. The prevention of damage to individuals and the accrual of benefits to the individual and to society will be actively sought by all branches of this Division.

The Programming Branch will be asked to examine broader aspects of the problem. The resources of the community, its character and its institutions, will be examined in relation to the projects, staff and clientele, individual and group, visitor and passer-by. Assistance will be sought from the social sciences, psychologists, and geographers. The problems will be examined in depth. Some regions have no centres, but have equally developing villages which offer some of the satisfactions that can be experienced in an urban environment. Contracts will be made with other departments and other jurisdictions to promote the coalescing of institutions, and the resulting development of regional centres.

The Architectural Branch will be asked to re-examine its standards in the light of increased capital costs, maintenance, and operating cost. It will not be enough to seek a handsome solution to functional problems. A building will have to be adapted to its site in a variety of ways in order to contribute to the total life of the community. The co-operation and active involvement of the municipal authorities must be achieved.

The Mechanical and Electrical Branches will be asked to play a greater role in influencing design decisions. The continuing increase in the cost of energy and the continuing relative decrease in supply requires new approaches to the design of buildings. Programmes are available that can give quick comparisons of the effect of differences in massing, orientation, fenestration, and shading. These programmes will allow us to reassess the indigenous methods of combating the rigours of our climate. Solving problems of environment by the profligate use of equipment and energy will be resisted.

Civil and structural engineers will be asked to continue their co-operation with pollution control and municipal authorities.

The Interior Design group will be asked to re-examine the use of office landscaping. The landscaped office in its current fashion is one of the most profligate users of equipment and energy. Its only claimed advantage is an increased interaction among middle management. The compatability of this interaction with confidentiality and security will be re-examined and recommendations made.

It is not that these systems are something new. They have been with us since the Division began. Nor is it that the old ways were wrong. It is that, as society changes, institutions must change to meet the new needs. These needs will require further changes and readjusting of basic systems. This report is our assurance to you that this Division will remain flexible enough and eager enough to meet any challenge that is assigned to it.

W. W. EKINS, *M.R.A.I.C.*
Director of Design

Renovated Court facility, New Westminster.

SOLID REFUSE DILEMMA—TO WASTE OR RECYCLE

The disposition of solid waste is at a crossroads. In most communities it is a definite problem.

Last fall the Mechanical Branch was asked to conduct an engineering feasibility and economic study into utilizing solid waste from a community, as a source of heat energy for Government buildings. On the surface, when one considers that three to four tons of municipal garbage has a heat value equivalent to a ton of coal, the study appears to be a worth-while effort.

Across the Continent, many novel schemes for improving existing techniques or proving new approaches are under investigation, but there is no way, at this time, to predict which will afford a practical and economic means of handling the millions of tons piling up every day.

The idea of *recycling* is not new. The paper industry, the steel and non-ferrous metal industries, and to some extent the textile industries, have been using recycled material.

Recycling of material is excellent for it conserves the natural resources. However, the problem with recycling at this time, is economic. The cost of collection, sorting, and transportation is often higher than the cost of new raw material.

The *traditional procedure* of handling solid waste has been to dump it onto some back area. It is unsightly, lets out offensive odours, it is a haven for rodents and constitutes dangerous fire traps. It is completely unacceptable in this day and age.

Sanitary landfill is acceptable from both the æsthetic and hygienic standpoints provided that it is carried out in a satisfactory manner. The waste should be shredded, dumped evenly upon the land, compacted, and carefully covered, There is some possibility of ground water contamination.

Compositioning is another beneficial way of handling the solid-waste problem. This method entails aerobic bacteriological decomposition of refuse after removal of the metal and glass. This method produces a usable soil, but costs about the same as good sanitary landfill and incineration.

Incineration provides the greatest volume reduction, about 85 to 90 per cent. This method offers the greatest variety of solutions. It produces sterile and inert material which can be used for landfill. A by-product of this method is heat energy, since solid waste contains from 2,000 to 5,000 B.T.U. per pound.

Where the heat energy can be used, i.e., district heating and cooling or converted to electrical energy, a fairly economic process can be realized, however, the first costs are high.

Care must be taken to keep the obnoxious parts of this process under control, that is, material handling, particulate emissions, odours, and obnoxious gases and noise to a minimum. With todays technology it can be done.

Pyrolysis is a process which does not destroy the refuse by combustion, but heats it without contact with oxygen. The waste is converted to char, waxes and greases, gases and liquids. The useful products are recovered and the gases used for fuel. The residue, much reduced in volume, is deposited in landfill.

High temperature (up to 3,000°F) solid-waste disposal systems are being developed. This process, besides producing heat, produces a molten slag which, when cooled, can be used as a road aggregate, filter media, or construction material. About 20 tons of waste produces a ton of slag. One type of high-temperature incineration being developed uses a fluidized fuel bed in the combustion chamber. The cleaned hot gases are fed to a gas turbine to generate electric power.

It would appear, that in the circumstances where there is solid waste, a use for the heat energy and the necessary capital can be combined, then solid waste might be an asset.

The Mechanical Branch has participated in most of the projects listed elsewhere in this Report.

There are several projects, however, that I would like to mention.

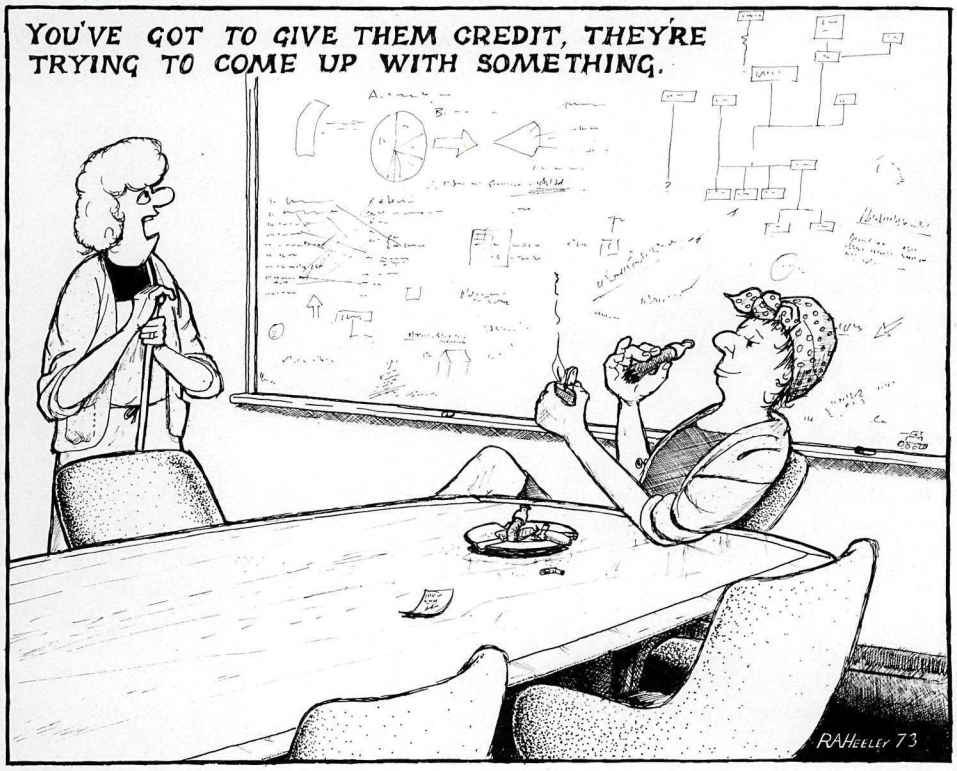
The conversion from coal to natural gas-fired oil in the boiler-plant at Riverview Hospital has been completed. The results are up to expectations and this has been very gratifying.

The Abbotsford Trout Hatchery—we have participated in developing a water recirculation system. The spent water from the fish ponds has to be purified and reoxygenated for reuse.

The system devised was tested in a pilot plant, and seems to be satisfactory.

At this time, I would like to thank the field operating staff for their "feed-back" which helps us to solve mechanical problems.

W. E. MILLS
Senior Mechanical Engineer



REPORT OF THE SENIOR CIVIL ENGINEER

Throughout the ages peoples have venerated historic places and buildings. This has been particularly evident in periods of unstability when people tend to fall back on to reminders and mementoes of a so-called relatively stable past rather than anticipating the sometimes uncertain future.

Europe, with its wealth of historic buildings, has been in the forefront of efforts to save and preserve its past. The formation of the National Trust for buildings in England, the very strict zoning codes and the support of the people, have been instrumental in saving its buildings and countryside. The recent spate of new tall buildings in London and the preposterous proposal to move Eros' statue in Piccadilly Circus, has raised a storm of protest. A poll taken in London recently, showed that the vast majority of the population did not want their city altered by new developments; they were more at home and content with their old and familiar surroundings. In other words, the emphasis should be on a certain amount of new building that would fit into the character of the area and the restoration of the old and worth-while buildings.

The demolition and erection of a Scottish Church in a California Funeral Park, and the removal of the Old London Bridge from London to an artificial lake in Arizona, are rather bizarre examples of the craving for instant history.

One of the most imaginative engineering feats of recent times was the removal and re-erection of the temple of Abu Simbel in Egypt. This temple would have been flooded by the impounded waters of the new Aswan Dam, so it was relocated on higher ground. The large sum of money needed for the work came from public subscription and governmental sources. The preservation of this priceless antiquity, which was irreplaceable, was considered worth the enormous costs involved.

British Columbia, with its comparatively short history, has very few buildings of a historic nature. For this reason alone it is essential that efforts be made to preserve as many as possible. The Public Works Department, in a modest way, has been involved in restoring old buildings and objects throughout the Province. We are presently involved in the restoration of the Old Parliament Buildings in Victoria, and the Courthouse in Revelstoke. Some of our past restoration work included Craigflower Manor, Helmcken House in Victoria, and investigatory work on the old Vancouver Courthouse. We have also been involved in the restoration and setting-up of historic Indian totem poles, etc. Perhaps the greatest problem involved in checking old buildings is the scanty information available on the structure and in many instances the complete lack of any structural plans. This fact necessitates breaking through architectural finishes in order to check the construction. With all the work and money involved, the end result of saving historic and attractive old buildings is certainly worth while.

In other work, the division had a very busy and rewarding year. Perhaps our largest and most complex job at present is the new Abbotsford Fish Hatchery. This project incorporates a recirculation system designed to make maximum use of the water available. The success of the hatchery will be completely dependent on the adequacy of the method of water-treatment selected. Research, by B.C. Research, into various systems and using a pilot plant, has been continuing for more than a year. This is now drawing to a close, and following receipt of a Pollution Control Permit, it is hoped that construction can proceed.

J. R. SIMPSON, B.SC., F.I.C.E.
Senior Civil Engineer

Pilot plant, Fraser Valley Trout Hatchery, Abbotsford.

REPORT OF THE ELECTRICAL ENGINEER

Part 1—Electrical Design and Maintenance

Personnel of this Branch continued at a stable level of work output, while the employment of consultants showed a considerable increase. This was particularly noticeable in the case of major projects for Government office buildings and courthouses throughout the Province, most of which used consulting services. At the same time, many widely varied projects were completed by Department staff, including design of new buildings, remodelling of existing, and miscellaneous jobs, such as electrical supply and distribution systems, fire-alarms, emergency lighting and power, audio and video systems, and many others.

The increased use of office machines of all types has resulted in a necessity for an office electrical distribution system which, in larger offices, can be more flexible and economical than previously existing systems. It is often not possible to provide electrical and communication outlets in the partitions. In many cases partitions have been eliminated, or they may be semiportable, or of partial height and thin construction. Floor outlets in open spaces are expensive and may not provide for sufficient flexibility of office arrangements. A simple solution has evolved in the power and communication utility poles, which can be installed between a suspended ceiling and the floor at any location. These have been developed into reasonably attractive units, and have won general acceptance. They are now being installed in large numbers.

Encouraging development has taken place in the field of fire-alarm systems. There are now a number of manufacturers producing modular solid-state systems, with improved reliability and less required maintenance. The programme of upgrading and replacing fire-alarm systems throughout the Province continued.

Developments in office lighting have been noticeable during the year. Where detailed work in large offices requires a high and even level of illumination, the lighting layout has been designed to reduce the effect of veiling reflections on the task. Such design is now assisted by "bat wing" diffusers which beam the light away from the vertical axis, thus permitting the task to be lighted from the side instead of the front. However, for proper applications, furniture layout is determined by lighting fixture locations, so that some flexibility is lost. In view of the considerable improvement in working conditions, the restrictions in furniture placement may become acceptable.

A second noticeable trend during the year has been the application of lighting to a specific working area within executive offices. In some cases, fluorescent lighting has been used at the desk and incandescent accent lighting elsewhere in the office. In other cases, where lower-light levels are desired or where a high ratio of heat to light is not objectionable, all-incandescent office lighting is being used to give a specific effect. This is being done in the main Legislative Building.

A considerable effort on the part of the senior personnel of the Branch has been devoted to assisting the electrical maintenance personnel on the staffs of the Superintendents of Works. Similarly, the maintenance staffs have been of invaluable assistance to design personnel, helping in site surveys, passing detailed information about existing installations, and providing the feed-back that is so necessary to permit a continuing improvement in design. The existing co-operative liaison is very valuable and very much appreciated.

By far the most significant trend during the year has been the continually increasing emphasis within society on the improvement of the human environment.

Both of the key factors, reduction of waste of energy and reduction of pollution, are of vital concern to the Electrical Engineer and the Electrical Designer. The policy of encouraging the use of electricity purely for sales promotion has been rightly discarded, and one reason why conservation of electrical energy is necessary is that large amounts are required to reduce the present causes of pollution. The total requirement for electrical energy is growing rapidly, but electricity is not the problem. Electricity is a major part of the solution to the problem.

J. B. HALL, P.ENG.
Senior Electrical Engineer

PART 2—COMMUNICATIONS

The men and women of the Electrical and Communications Branch have traditionally been involved with a variety of communications equipments and systems, for which some definition of terms is required. "Communications" is the all-encompassing word referring both to the exchange of information and to the devices which facilitate the exchange. Telecommunications is generally taken to be communications over a distance by an electro-magnetic system, including wire and cables, as well as radiated or ducted waves. Internal communications systems within buildings or complexes, although often having the same components as telecommunications systems, are usually classed separately. These systems include office intercoms, public address, paging, music distribution, fire-alarm, security, monitoring, control, and others. They are included in the design of all buildings with which the Department has been involved.

The major telecommunications commitment of this Branch is the design, administration, and control of the telephone utility systems used throughout the Province. During the past year, there were 1,600 orders placed with the telephone companies for additions or alterations to telephone equipment in Government buildings. Every order involves detailed study, consideration as to necessity, analysis of a suitability and cost, and clerical processing. Many require site inspection and discussion.

Two important improvements were made to the telephone systems during the year. The switchboard in the Parliament Buildings was converted to a centrex system, which permits outside callers to dial direct to the number they want, without going through the operator. This permits much faster service with fewer operators, even though the caller must look up the number of the office he wants, or ascertain it from the operator and note it for future calls.

A second advance has been the installation of direct dialing from any local on the building exchange to Prince George, Smithers, Quesnel, Dawson Creek, Fort St. John, and vice versa. This also speeds service with fewer operators. The system will be extended in the near future to cover the communities around Nelson and those around Kamloops.

Although the above changes do improve service, it is realized that there remains much to be done, and intensive study of system additions was in progress at the end of the period under report. It is expected that a very significant increase in the Telpak facilities will be effected prior to printing of this Report.

In spite of the improved automatic features of the telephone system, the services of the operators remain indispensible. Their individual performance continues to be commendable, especially during peak periods when they work under

considerable pressure with the utmost courtesy and efficiency. Their work, and the work of their supervisors, fulfils a very important function of this Branch.

This year, for the first time, communications personnel from other Departments, as well as from the Public Utilities Commission, the B.C. Hydro and Power Authority, and the B.C. Railway, have formed a common function group which is performing in an advisory capacity dealing with all aspects of telecommunications. A major study of all Government communications has been initiated, and is being conducted by a competent firm of consultants. Communications discussion amongst all provincial governments, and with the Federal Government, is now continually scheduled, particularly regarding long-range policy dealing with evolving conditions. The interconnection of privately owned equipment to the public networks could produce a whole new industry. The advent of widespread use of two-way inter-active co-axial cable in the cities may well have an impact comparable to that of the automobile. And this has been the year of the domestic communications satellite, a field where Canada is leading the world.

J. B. HALL, P.ENG.
Senior Electrical Engineer

Conversion of control room, boiler-house, Essondale.

Jericho Hill School Infirmary facilities, Vancouver.

Jericho Hill School Cafeteria, Vancouver.

REPORT OF THE ARCHITECT-PLANNER

The year that is covered by this Report is of particular interest in that it is marked by a change in executive midway between its commencement and closure, the pressures being varied but constant.

It was anticipated that changes would occur in policy thinking and that these would be favourable toward a movement in further planning action, and this has been borne out in the comparison of the two six-month periods.

It would be invidious to place emphasis or give equal status to every project emanating originally from this Division, but those pertaining to space programming and the planning of Civil Service Departmental movements cannot pass without comment, particularly in regard to the over-all enlargement of the Civil Service.

From previous reports during the past 18 years it is on record that a standing requirement in the efficiency of a work force is that it should have sufficient room in which to carry out those duties it has to perform.

Master plans had been drawn up in 1954 for a Legislative Precinct in order that those in authority would at least consider such implications that were crying out for attention. These plans were amplified by suggested use patterns of the two major buildings then in existence and the status of others that were no longer producing a return in usefulness. Work on the Main Building is well under way and when completed the space use will have returned to the original intent of the design.

The first half of the period under review showed a quickened pace of production, particularly in purchase of sites for small courts buildings throughout the Province that far outstripped any movement than had gone on in previous years. However, in contrast to this the second period is marked by a programme of purchasing that should have been accomplished in the years that preceded this Report.

These pages have never failed to reiterate the importance of land as the Province's most precious resource and although the area on a map may appear vast, and indeed is, as we who fly over it will agree, the actual acreages available for reasonable economical development become more difficult to procure. Thus, we had a spate of site requirements that came at a time when real estate values were commencing to climb at 1½ per cent per month in league with food prices. Land is now virtually impossible to obtain in urban areas, whether large or small, except at inflated prices and we are now suffering from the inability of being able to proceed with a comprehensive purchasing programme over the preceding 10 years. However, with the considerable increase in staff appointments throughout the Civil Service and the declared intention to disperse the work force the climb in required leased premises has taxed the limits of the Division to breaking point with no abatement in sight.

The inventory of real estate owned by the Crown and the survey of properties proceeds as expeditiously as time and staff available will allow, together with such time-consuming duties as attending to rights-of-way, easements, appraisals, purchase and sale of properties, lease of more than 1,000 properties, with all the attendant legal matters for which this Division is responsible.

An excellent rapport pertains with all departments of government and a constant communication is maintained with municipal councils, regional boards, and town planning commissions.

Planning has become a priority for two reasons—to remedy the defects of our inherited legacy of land use and at the same time to provide for expected change in established and new areas, including the stimulation of change and the protection against change.

The subject-matter is all the land of a country that has a past, present, or potential use for human activity, land in this connection, including water surfaces, the air above which would be used for building, the minerals beneath, and the man-made improvements and buildings on the land. In brief, we in this Department are concerned with man's environment, historic, current, and potential.

The object of land use planning is the same as in all planning—by applying some conscious process to achieve a better realization of objectives that would obtain with the process.

W. D. LOUGHER-GOODEY, M.R.T.P.I., M.T.P.I.C., M.I.F.L.A., F.L.I.A., M.A.S.P.O., A.I.STRUCT.E.

Architect-Planner

Landscaping, Duncan Courthouse.

REPORT OF THE QUANTITY SURVEYOR

During the year 1972/73 most of the employer/union wage agreements were renegotiated, but before a settlement could be agreed, the industry experienced a shut-down of almost three months duration. The increase over the October 1971 rates that were accepted, averaged approximately 16 per cent over the two-year period, a decrease of 7½ per cent from the increase of approximately 23.5 per cent for a similar period in the previous agreement.

This reduction in wage increases from the previous period has, however, been counterbalanced by unusually high increases in some material costs. The prices of lumber and reinforcing steel in particular, have increased considerably. The result of these changes in wages and material prices is an increase of approximately 7 per cent in the capital costs of buildings.

Another feature of the tenders received in this period is the relatively small number of bidders. After the shut-down ended, contractors concentrated on completing the backlog of work that had accumulated and the few that tendered on the Department's work submitted prices that were considered unduly high. This condition lasted for approximately one month, after which more contractors became interested in tendering and prices returned to normal. The number of bidders, however, is still disappointingly small.

The work of the Branch has been extended to give assistance to the Department of Education in determining the budgets for schools. The method being researched is the use of functional space prices. These are prices of the finishings, equipment, and services in an area that serves a particular function or need, such as a classroom, washroom, gymnasium, office, etc. The number of each of the functional spaces is known and thus the cost of a group of them (i.e., a school) can be added to the appropriate costs of the structure and services to obtain the total cost of the building.

Correcting factors must be calculated to include variations in local material prices, foundation requirements, environmental conditions, etc., to permit the cost of a particular school to be computed.

The building price indexes that were started in 1971 are beginning to be of use in the updating of estimates. Of the two major indexes, the one reflecting input prices, that is, variations in wages and material prices is adjusted in May and October, following the changes in wage rates. The index reflecting tender prices is obtained by applying to the input indexes a percentage mark-up that is obtained from Department estimates that are submitted at the time tenders are received. In order to increase the range of tenders used in this index, quantity surveyors in Vancouver have been invited to participate in the project. This broader base should result in a more complete index.

S. R. Toller, M.C.I.Q.S.
Senior Quantity Surveyor

Landscaping, Government House, Victoria.

Playground, Glendale Hospital, Victoria.

REPORT OF THE SENIOR SPECIFICATIONS WRITER

The past year has been extremely significant for the production of good specifications. In the past there have been many problems; despite the huge size of the construction industry it is extremely fragmented. This has made communication difficult and materially affected specifications which form the main avenue for communication in the industry.

There has been continual endeavour to improve specifications and, during the past year, two events occurred which will have a profound effect.

The first of these was the adoption in Canada of the section format developed by the Construction Specifications Institute. This format is excellent, extremely logical, and is now standard throughout North America. For us it at last provided a definite path to follow in contrast with the partial confusion which previosuly existed.

The second was the simultaneous adoption in Canada and the U.S.A. of the Uniform Construction Index. This document contains formats for specifications, data filing, cost analysis, and project filing. All of these interrelate to provide cohesion and facilitate communication.

With the necessary guidelines established, we have been able to proceed with the research and preparation of master specification sections, for storage on magnetic tape.

We now have a number of sections at various stages of completion. Initial research is extensive and invariably uncovers a number of previously unsuspected facts. This has been of great interest and sometimes surprise to the trades and manufacturers involved. It has been interesting to note the extent to which others use the results of this research. In fact, we are looked to increasingly for guidance by trades and associations in the industry.

Draft-specification sections are circulated for criticism. They are sent to trade associations, contractors, and suppliers in British Columbia, in some cases also to Eastern Canada and the U.S.A. Response has been excellent.

In conjunction with master-specification research, we set up standard schedules and details. Last year we completed "finish" and "door" schedules, door and frame details with standard nomenclature to identify door types. In course of preparation are details covering flashings, casework, and steel studs. These are arranged to complement the specifications, simplify the design process, improve details, and speed up production. In addition, we have arranged seminars and technical presentations on new materials, building problems, and construction techniques.

One result of our research has been an invitation by the Canadian Government Specifications Board to membership of their committee covering construction sealants. This is, in fact, the only provincial government representation in Canada. Apart from the individual standards covering each type of sealant, we also provide input to their *Guide to the Selection and Use of Sealants,* which is now under preparation.

In addition to the normal consulting service which we perform within our own division, we receive requests to assist other divisions and departments. This service has expanded considerably and we receive innumerable requests for assistance ranging from advice to investigation and reports on building material failures.

For the future, we anticipate increasing use of performance specifications, with these the specification becomes the basis for the design of the building. We will also have the first of the computer-aided information retrieval systems to evaluate.

There seems little doubt that the industry will change rapidly in the near future and we have to keep pace with or ahead of the changes.

J. C. CURRIE, M.C.I.Q.S., A.R.I.C.S., R.S.W.
Senior Specifications Writer

Playground, The Woodlands School.

REPORT OF THE DIRECTOR OF CONSTRUCTION AND MAINTENANCE

This year's Public Works Report includes individual reports by the Mechanical, Maintenance, and Operations Engineer in addition to the Co-ordinators of both Construction and Maintenance. These presentations will disclose the majority of work carried out by the Division in connection with its construction and maintenance operations on both Government owned and leased premises. My report will include information on activities not always related to the operation of the Government's physical plant, and items of special interest.

The object of primary function maintenance, is to generally preserve the building equipment and grounds in a state of repair equal to that when it was first constructed. In this respect it is the custom to accept reasonable wear and tear which often entails throughout the life of an asset its periodic upgrading and renovation.

Operations Maintenance Prime Function include:

(*a*) Maintenance of buildings.
(*b*) Maintenance of grounds.
(*c*) Maintenance of heating, ventilation, and other plant equipment.
(*d*) Periodic inspection of equipment, its lubrication, and replacement of worn parts.
(*e*) Keeping in serviceable condition plumbing, heating, water and sewerage distribution systems (institutions and large complexes).
(*f*) Providing improvement to equipment and buildings to enable them to better serve the need of their occupants.
(*g*) Installation of replacement equipment and removal of obsolescent items.

Secondary function objectives support and complement the above functions and are of equal importance in this Division's work:

(*h*) Security of the physical plant.
(*i*) Fire protection.
(*j*) Trash and garbage disposal.
(*k*) Property and plant inventory.
(*l*) Vermin control.
(*m*) Pollution control.
(*n*) Janitorial and cleaning services.
(*o*) Storekeeping.

The Division's capability of providing a service beyond that normally required to meet the objectives of an Operations Maintenance Primary Function arises from the composition of its labour force and the sensitivity of its personnel to respond to Government's particular operational requirements. In this respect supervisory and key tradesmen from this Division's maintenance forces are now participating in the major restoration work currently under way in the Parliament Buildings.

During the period under review, the Chief Security Officer and senior staff participated as speakers in advising groups of Government employees on emergency and security procedures in the Parliament Buildings Precinct and Victoria area. Approximately 5,000 Government employees attended these meetings which were held during the months of January and February 1973. In this respect the Newcombe Auditorium provided a suitable location for the assembly of these personnel. The material presented at the meetings included individual response to fire, earth-

quake, and more common accident emergencies, beside the measures employees can take to protect both life and also Government property. It is gratifying to report that four native Indians are currently employed in this Division as Security Officers and carry out their duties at the St. Eugene Mission School premises in Cranbrook. Although these are the first native Indians to be employed in connection with this Department's responsibilities we hope a greater number of qualified persons from this group will be encouraged to apply for other positions as and when these become available.

Our Chief Security Officer reported four incidents which resulted in Government employees either being verbally and (or) physically assaulted in their offices. In each instance assistance from the Security Force was available and provided. In several instances the attendance of security personnel was instrumental in preventing injury and therefore eliminated the necessity of any legal action. Approximately 20 demonstrations were held outside the Parliament Buildings and monitored by our Security Officers. Participants and spectators included groups of 16 to 2,000 persons. Personnel in the Parliament Buildings Inquiry Office assumed responsibility on a 24-hour basis for initiating action in respect to telephone 111 emergency call system, thus relieving the telephone operators for other duties. Numerous investigations relating to damage to Government property and theft of employees' possessions throughout the Province were the subject of investigation and report and often entailed establishing liaison with the local police authorities. In the current fiscal period under review, approximately 1,222,564 persons visited the Provincial Museum and at least 50 per cent were conducted on tours of the Parliament Buildings by Public Works tour guides. The number of visitors constituted a challenge to the ability of not only our guides and their supervisors but also to our security personnel who attempted to provide information and help when it was requested.

Glendale Laundry operation allowed us to provide service to the Glendale Hospital Society, Vancouver Island Regional Correctional Centre, Gorge Road Hospital, and the Victoria Vocational School. The Gorge Road Hospital was provided with laundry service in August 1972, and approximately 14,071 pounds of laundry were cleaned in the first month this service was provided.

By the end of March 1973, with the additional extended-care unit at the above hospital, the laundry load had increased to 42,100 pounds. At the termination of the current fiscal period approximately 130,184 pounds of laundry were being processed for the month of March 1973, and provided service to five institutions. During the period under review negotiations with the Department of Veterans Affairs were in progress and agreement has now been reached to accept the Victoria Veterans Hospital linen for processing at Glendale, thus eliminating the necessity for them to obtain service from Vancouver. It is appropriate at this time to mention that our negotiations both with the Veterans Hospital and the Royal Jubilee Hospital in connection with providing laundry service have been negotiated with help from the Hospital Insurance Branch of the Department of Health, and I would like to acknowledge the co-operation and valuable help this other Government department has given us on all matters pertaining to institutional laundry service. Currently, the Veterans Hospital laundry is being processed and it is expected when additional laundry machinery and alterations to the laundry floor plan has been made sufficient capacity will exist to accept laundry from the Royal Jubilee Hospital. The sudden and sad death of A. Taylor, our first Laundry Manager, early this year placed considerable strain upon our laundry staff, and it was only with their co-operation we were able to maintain service to the users without serious disruption.

Meetings have continued throughout the fiscal period with the consultants for the British Columbia building and although the concept of this project has now changed, the majority of information and data compiled will be relevant to the current project. Detailed information is being provided in respect to the composition of persons to be employed to keep the building in operational condition, the cleaning of the building, security, and other matters in connection with maintenance and operations.

In conclusion, I would like to express my appreciation to all members of this Division for the co-operation and help they have given me in discharging my duties and obligations. I would, at this time, also like to record on behalf of the Division the excellent help and co-operation we have reecived from the Design Division and, indeed, all Government departments and others whom we have been able to provide a service.

STANLEY LLOYD, M.R.A.I.C., A.R.I.B.A., DIP.PUB.ADMIN.
Director of Construction and Maintenance

Renovation, Abbotsford Government Building.

REPORT OF THE CO-ORDINATOR OF MAINTENANCE

The responsibility for maintenance of Provincial Government buildings and grounds is assigned to the Maintenance Branch of the Construction and Maintenance Division, S. Lloyd, Director.

For administrative purposes, the Province is divided into zones, numbered 1 to 6, with headquarters at Victoria, Burnaby, Essondale, Kamloops, Nelson, and Prince George, respectively. Each zone is headed by a Superintendent of Works, who has a staff of tradesmen, building service workers, etc., under him. Branch headquarters is in Victoria and includes the offices of the Co-ordinator of Maintenance.

The distribution of maintenance personnel by trades among the six zones was as follows:

Distribution of Maintenance Personnel by Trades

	Zone 1 Victoria	Zone 2 Burnaby	Zone 3 Essondale	Zone 4 Kamloops	Zone 5 Nelson	Zone 6 Prince George	Total
Building service workers	201	126	17	44	28	50	466
Carpenters	18	13	16	10	8	8	73
Drivers and Mechanics	9	3	13	3	1	1	30
Electricians	18	7	16	6	1	1	49
Fire-fighters	------	------	17	9	------	------	26
Gardeners	8	8	13	6	------	3	38
Labourers	35	23	16	20	3	17	114
Office staff	11	10	12	6	5	6	50
Painters	17	15	25	10	4	7	78
Plasterers and Masons	4	------	10	------	------	------	14
Plumbers	8	7	12	4	------	1	32
Roofers and sheet metal	4	1	4	------	------	------	9
Stationary engineers	44	67	60	30	5	30	236
Switchboard operators	24	16	------	3	------	3	46
Security	41	5	------	6	3	------	55
Laundry workers	20	------	------	------	------	------	20
Totals	462	301	231	157	58	127	1,336

Maintenance Expenditures by Zones, 1972/73

	Zone 1 Victoria	Zone 2 Burnaby	Zone 3 Essondale	Zone 4 Kamloops	Zone 5 Nelson	Zone 6 Prince George
	$	$	$	$	$	$
Salaries and wages	3,356,076.41	2,379,640.03	2,223,201.72	1,424,685.48	453,564.45	1,075,765.99
Heat, light, power, and water	683,621.98	717,845.85	733,121.06	449,981.53	105,485.85	336,846.02
Maintenance of buildings	441,227.68	517,396.87	513,110.90	248,906.82	118,669.12	276,563.79
Totals	4,480,926.07	3,614,882.75	3,469,433.68	2,123,573.83	677,719.42	1,689,175.80

Grand total, $16,055,711.55.

Tenders were invited for 149 projects during the year, and contracts awarded totalled $740,000.

H. J. GREIG, B.A.SC., P.ENG., DIP.PUB.ADMIN.
Co-ordinator of Maintenance

Office area, Provincial Government Service Centre, Victoria.

Shop area, Provincial Government Service Centre, Victoria.

REPORT OF THE CO-ORDINATOR OF CONSTRUCTION

This fiscal year commenced with the biannual construction strike/lockout situation with most of the trades, thereby substantially reducing the number of "good weather" months available to the industry. The shut-down and subsequent restarting of the majority of projects ensured that there were any number of different problems to challenge us.

A feature of the year was the first major renovation and alteration job to be carried out under construction management, at the Willow Chest Centre, Vancouver.

A good team was assembled for the project and such essential aspects of construction management as costing, purchasing and quality control were well handled.

This augurs well for the future, since there seems to be little doubt that the industry is starting to move away from the traditional concept of general contracting, with all the "opposed factions" troubles implicit in stipulated sum contracts. Flexibility, cost, and time-saving are accepted as being desirable features that are capable of achievement with construction management.

The inspectors' training programme instituted three years ago was continued with several inspectors completing the "Human Relations and Communications" course at BCIT, and most inspectors attending the roofing seminars presented by the Roofing Contractors Association in conjunction with the National Research Council.

An average of approximately 75 active projects were being supervised at all times during the year by this Branch, ranging from personal-care homes, highways maintenance establishments, cafeteria and infirmary, gymnasia, horticultural building, library and courthouses, to major and minor renovations, fire-alarm systems, electrical distribution and sewage treatment plants.

There has been a considerable improvement in terms of closer liaison with members of the Design Division with the move of the Construction Branch to new space in the same building as that occupied by the Design Division. This has facilitated the solution of problems related to design in projects under way, since headquarters staff and the specialist electrical and mechanical inspectors can now maintain daily contact with designers.

I wish to thank the Director of Design and his staff for the excellent co-operation which we received during the year, and look forward to continuing in the same spirit into the next fiscal year.

D. GREY, M.C.I.Q.S., DIP.PUB.ADMIN.

Motor-vehicle Testing-station, Burnaby.

Cafeteria, Vocational School, Victoria.

REPORT OF THE MECHANICAL OPERATIONS AND MAINTENANCE ENGINEER

This Branch has supervisory responsibility for the operation and maintenance of boiler plants and mechanical equipment and systems in Provincial Government institutions and office buildings.

The headquarters staff provides engineering services, technical assistance, supervision, and direction to the field-operating and maintenance staffs.

During the year, drawings and specifications were prepared, and contracts awarded for 31 projects for upgrading, renovation, and alteration work to mechanical services. In addition, mechanical drawings and specifications were also prepared for incorporation into general contracts on a number of building-alteration projects initiated by the Co-ordinator of Maintenance.

Throughout the year frequent field trips were made by headquarters staff members, to survey and exercise corrective measures on operational problems, and to assess the functional effectiveness of equipment and systems.

A continuous and active liaison was maintained with our Superintendents of Works and Chief Stationary Engineers. Their co-operation and assistance, and their dedicated attention to the operation and maintenance of plants and systems is greatly appreciated.

F. D. STURDY, P.ENG.
Mechanical Operations and Maintenance Engineer

Boiler-house, BCIT, Burnaby.

Ned DeBeck Lounge, Parliament Buildings, Victoria, before renovations.

Ned DeBeck Lounge, Parliament Buildings, Victoria, after renovations.

REPORT OF THE DIRECTOR
SAFETY ENGINEERING SERVICES DIVISION

The *Safety Engineering Services Act* was passed by the Spring Legislature in 1972 and will be proclaimed at some later date.

The proposed regulations pursuant to the *Safety Engineering Services Act* are being formulated in conjunction with the Advisory Boards. The members of these Advisory Boards represent all facets of the industries and trades which may be affected by the Act and subsequent regulations.

I expect that during the next year many of the proposed regulations, which are now being drafted, will be enacted.

During the year we have increased our inspectoral staff by 10 inspectors. They were distributed in the Branches as follows:

(1) Boiler Inspector for the Terrace office.
(2) Gas Inspectors—one for the Prince George office and the other for the Surrey office.
(7) Electrical Inspectors—one for each of the following offices, Prince George, Williams Lake, Kamloops, Salmon Arm, Nelson, Langley, and Vancouver.

Stanley Smith, Chief Boiler Inspector, retired on November 30, 1972, and was succeeded by B. W. Cole, P.Eng.

J. F. Helme, P.Eng., Assistant Chief Gas Inspector, left to take another position and was succeeded by J. A. Smith, P.Eng.

There has been considerable turnover in the clerical staff and this has interfered to some extent with the operation of the Division.

Our experience during the year was that suitable clerical and technical personnel were in short supply in the Province.

The work load increased approximately 8 per cent over the previous year, and it is expected that the work-load will increase in the Fiscal Year 1973/74 to about 10 per cent.

A. G. Kaneen, P.Eng.
Director

REPORT OF THE CHIEF BOILER INSPECTOR

A best phrase to summarize our year's activities would be to say we have carried on a retrograde action. In numbers our Provincial totals of boilers, pressure vessels, candidates for welding and engineering certificates increases and expands while our capabilities to perform functions and activities inherent in our Act diminishes.

One bright spot on our horizon that has practically come into being will be standardization of power engineers study courses and examinations. In the same vein, standardization efforts are being directed towards welding and acceptance of design surveys. Coupled with those items are our plans to reschedule our activities and minimize inspection frequencies. However, without additional staff much survey work would not be done and many classes of vessels would continue to receive no examination on installation.

Decentralization of our offices advanced another step with the opening of an office in Terrace. Indications are that the overload in the northern part of our Province is being alleviated somewhat and reports are that the communities are better served.

Accidents

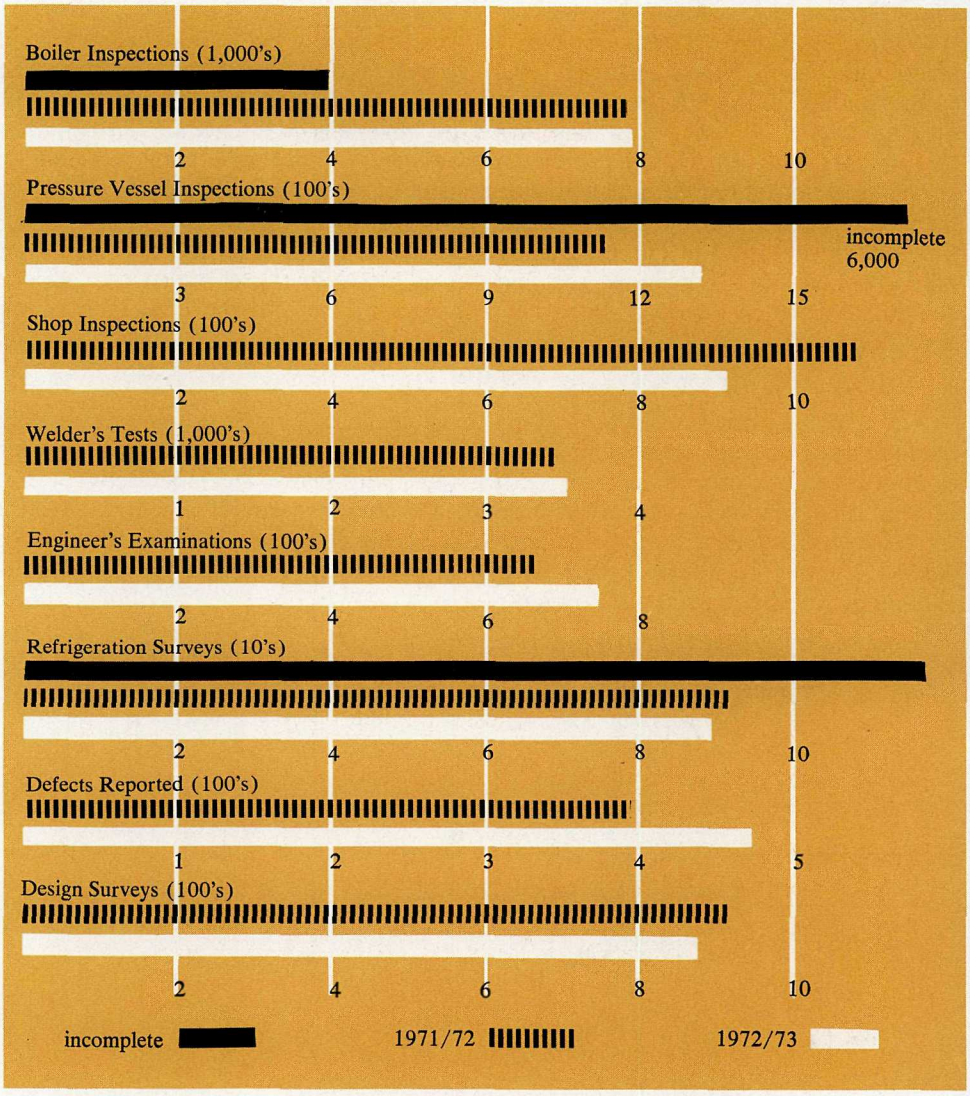
We investigated 10 incidents of major significance during the year, fortunately no fatalities involving code plant and equipment occurred. Mainly the accidents occurred because of human error, either something was done incorrectly or not done at all. Emphasis on establishment of operating procedures and training with responsible maintenance, reporting and testing have been put forward and are provided for in new regulation proposals to help correct the conditions and situations. Full reports of the incidents are on file.

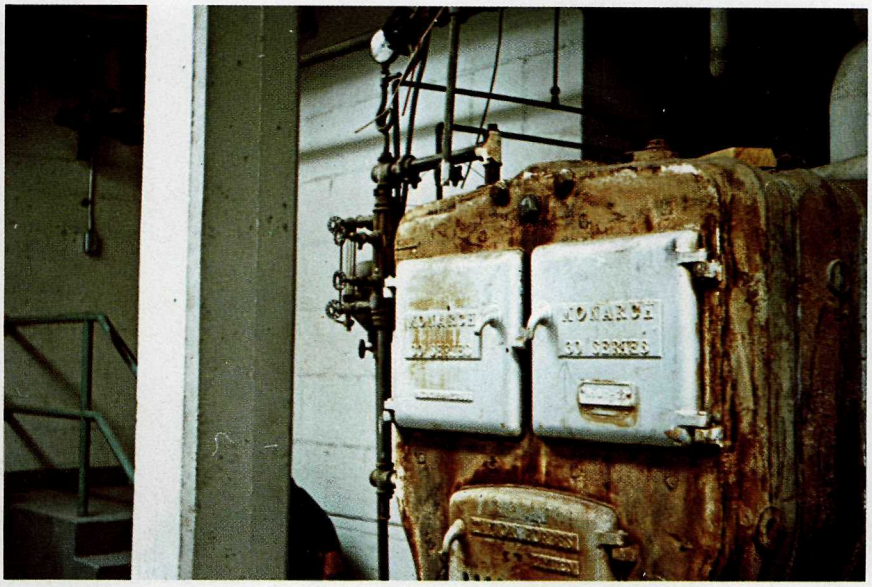
B. W. Cole, P.Eng.
Chief Inspector

MAJOR ACTIVITY CHARTS

Boiler Inspection Branch

INSPECTIONS, SURVEYS, EXAMINATIONS

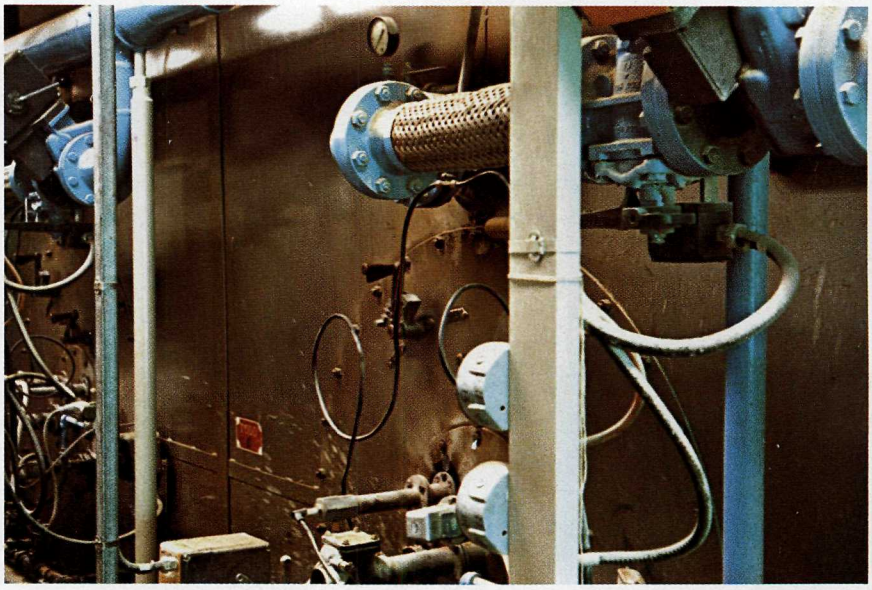




Cast-iron boiler (no controls), defective and leaking.

Control room, Cariboo Pulp Mill.

Cariboo steam plant buildings and digestive house.



Burner systems, Cariboo Pulp Mill.

REPORT OF THE INSPECTOR OF ELECTRICAL ENERGY

The fiscal year 1972/73 has proved to be the third consecutive year in which substantial increases in activity occurred in all sections of the Electrical Energy Inspection Branch, except one.

Certificates of Competency issued reached 2,341, up 20.4 per cent over the previous year. Examinations conducted numbered 763, an increase of 25 per cent. The total number of permits issued reached 64,596, up 1.4 per cent, but the value of these was up 15 per cent over the previous year. Despite the addition of six new Inspectors to the staff, the average work load per man was 1,460 man-hours, up 3.4 per cent from the previous year, and 9.5 per cent in excess of the standard work load of 1,333 man-hours per man.

It is a notable fact that in the past three years the work load has increased by nearly 36 per cent, while the field inspection staff has increased only 22 per cent. In addition, we have suffered considerable losses of time due to the extended illnesses of *six* of our field Inspectors, which still further increased the load upon those who remained active. Under the circumstances, our staff is to be most highly commended for its excellent performance under the most adverse conditions.

The Branch is continuing to experience great difficulty in recruiting suitable Inspectors and at the year's end were short three men from the established strength due to two retirements and one death.

The reorganization of the Branch along regional lines was undertaken during the year with the Province being divided into nine Regions, each to be supervised by a Regional Inspector. These men have been selected and several have been authorized to assume their supervisory duties. But all are still burdened with the duties of inspecting a District and the regional concept cannot be fully implemented until nine more Inspectors can be obtained to assume the District duties of the Regional Inspectors.

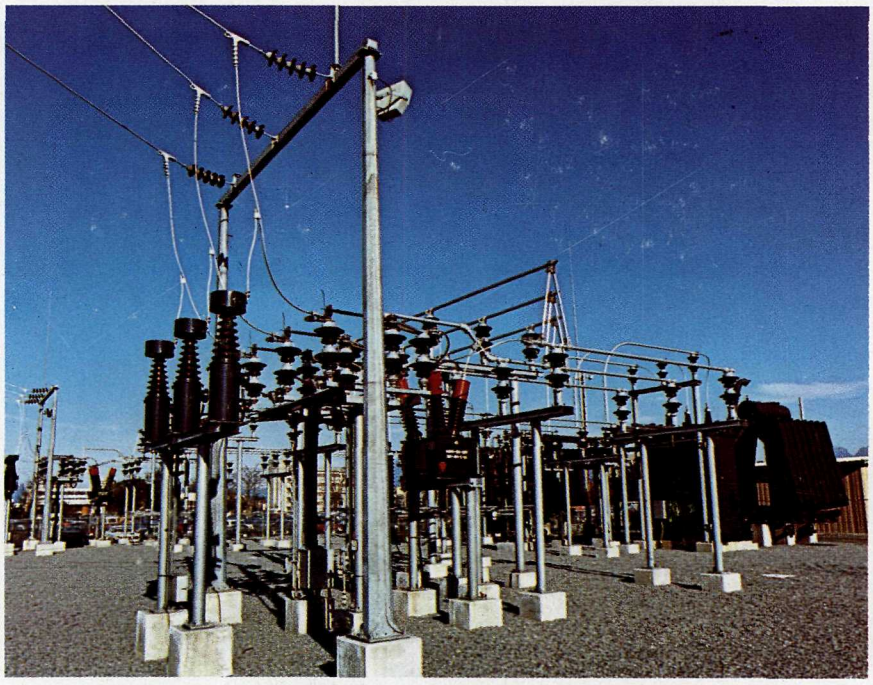
The one area in which a decrease of activity was apparent was the Approval of Equipment section. The number of pieces of equipment approved was 4,301, down 28.5 per cent from the previous year. This was primarily due to the need to reduce the number of Inspectors working on approvals from two to one, in order to increase strength of the field inspection staff.

The Branch investigated 77 incidents involving eight fatalities, 11 injuries, and 60 fires. Of the latter, 39 were of electrical origin, 15 were probably not of electrical origin, and six were doubtful or undetermined.

Of the eight fatalities, four were children killed in two fires, neither of electrical origin. One was a man who attempted to cut a kite string, fouled in a 230-kv line, with a knife attached to a long freshly cut green alder pole. One was a carpenter, whose metal ladder fell against a high-voltage line. Two were linemen, killed in separate accidents involving high-voltage lines.

G. A. HARROWER, P.ENG.
Chief Inspector

Vancouver Post Office sorting equipment.



Substation, UBC Endowment Lands.

REPORT OF THE CHIEF GAS INSPECTOR

The Regulations

In the fall of this year, this Branch will be adopting the Canadian Standards Code B149.1 1971 for use in this Province.

There will be some amendments to this code which are applicable only to British Columbia, but any major changes have been kept to a minimum.

The Branch

There has been a general increase in nearly all areas of the Province in the extension of gas service to the municipalities, even greater than the past year.

The number of gas permits issued by this Branch has increased in some districts as much as 30 per cent.

The checking of new designs increased by 10 per cent over the past year.

During the past year the Gas Inspection Branch took over the inspection services for the University Endowment Lands, New Westminster, and Pouce Coupe.

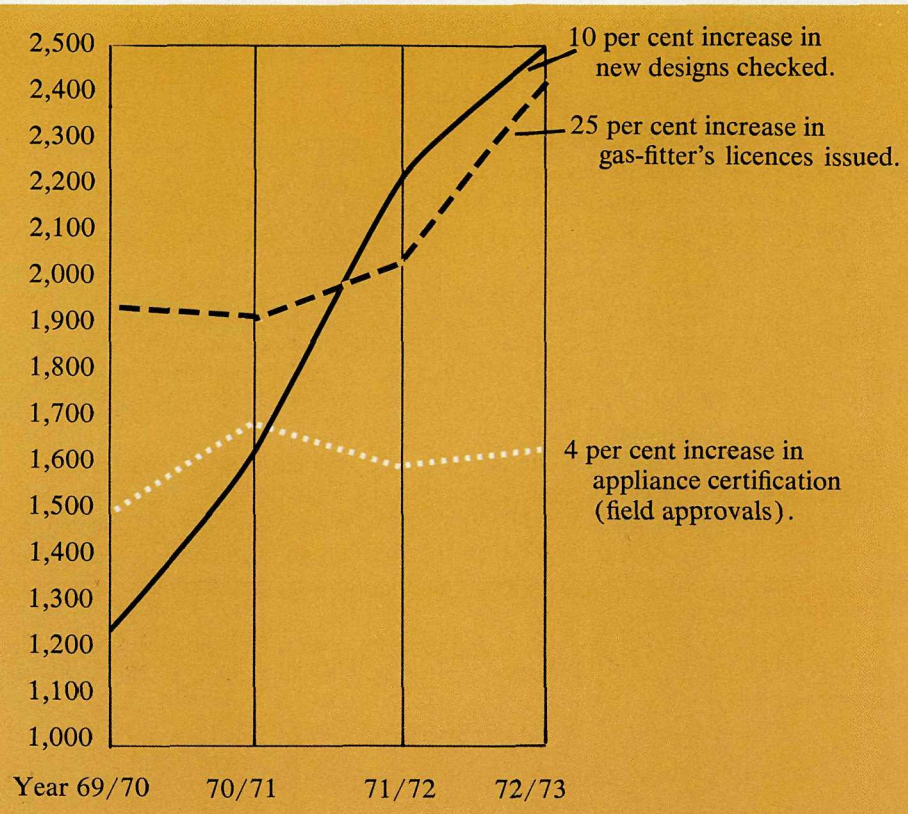
There was also a marked increase in the number of applicants for gas-fitter's licence, indicating a considerable growth in the natural gas industry which will continue into the next year.

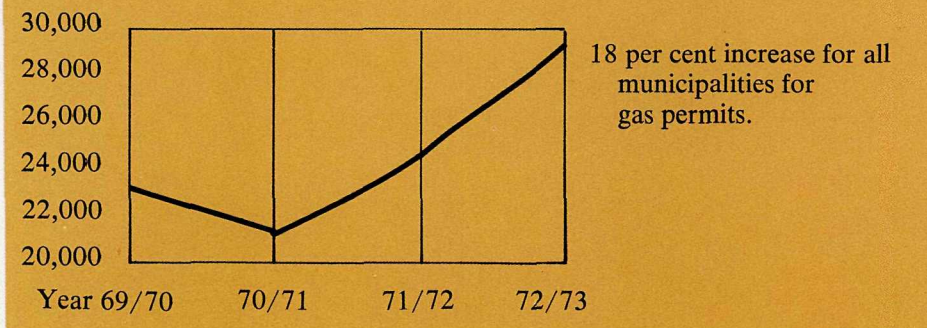
B.C. Research Council has been engaged in several projects involving local manufacturers of gas-fired equipment, one of which is located at the Canadian Kenworth Plant.

Accidents

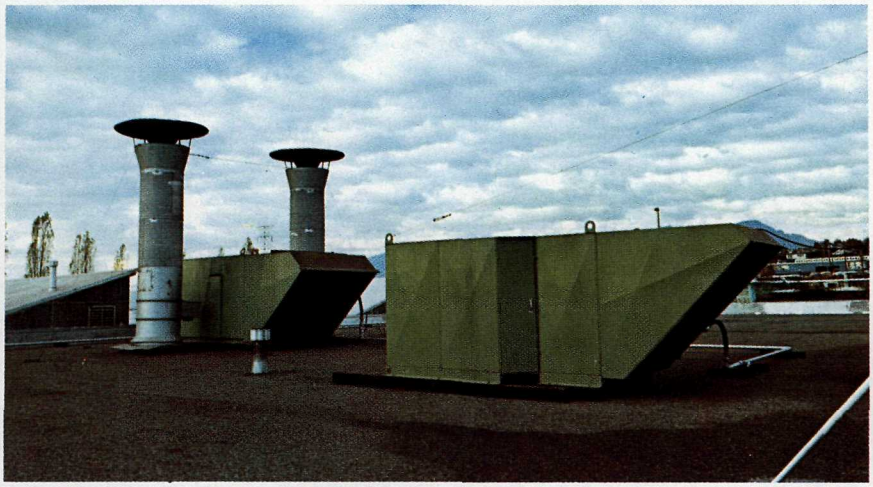
There were 13 fires investigated by this Branch and all were of a minor nature and with no serious injuries to persons involved.

SUMMARY OF WORK

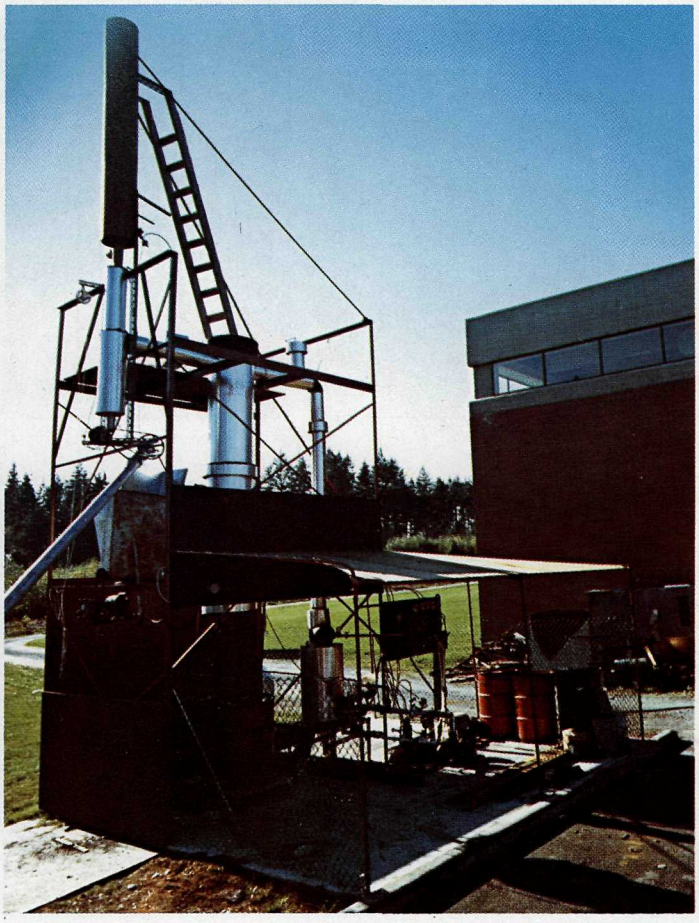




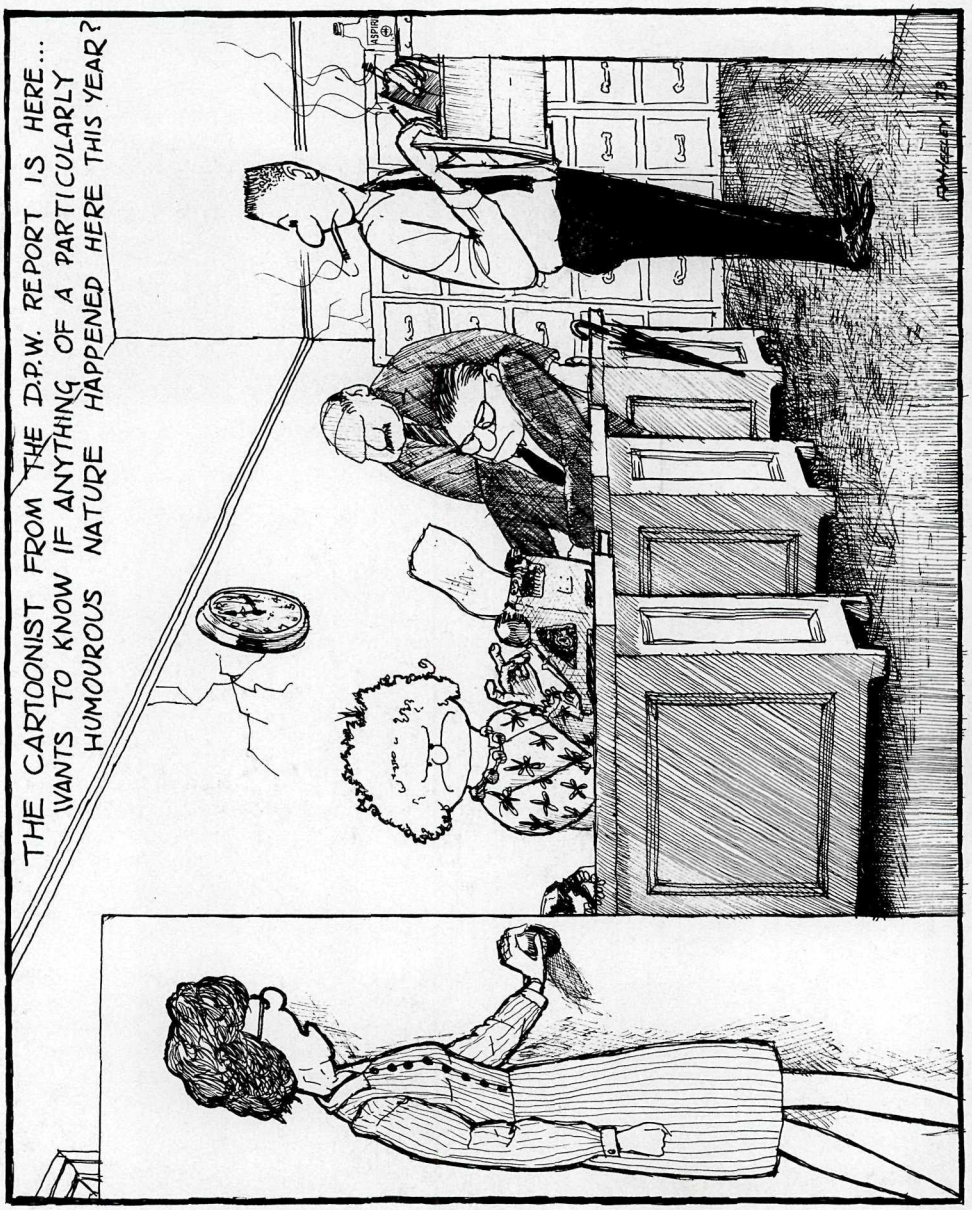
W. R. MONTGOMERY, P.ENG.
Chief Inspector



Direct-fired rooftop heater, Canadian Kenworth Ltd.



Unit to convert waste sawdust to coke, B.C. Research Testing Station Laboratory.


THE CARTOONIST FROM THE D.P.W. REPORT IS HERE...
WANTS TO KNOW IF ANYTHING OF A PARTICULARLY
HUMOUROUS NATURE HAPPENED HERE THIS YEAR?
ASPIRIN

REPORT OF THE COMPTROLLER OF EXPENDITURE

The following pages present in detail the expenditures relating to the construction, alterations, and repairs on the various Government buildings and institutions, etc., coming under the management, charge, and direction of the Minister of Public Works. The total gross expenditure of $47,720,937.94 represents an increase of approximately $11,000,000 over the previous period, and this increase is reflected mainly in the capital construction programme.

A. E. RHODES
Comptroller of Expenditure

STATEMENT OF EXPENDITURES, FISCAL YEAR 1972/73

ADMINISTRATION AND MAINTENANCE VOTES

(For details, *see* Public Accounts)

		$
Vote 226—Minister's Office		42,890.46
Vote 227—General Administration		455,510.89
Vote 228—Government Buildings (maintenance)	(gross)	18,299,165.63
Vote 230—Rentals	(gross)	4,288,974.88
Vote 231—Safety Inspection Division		1,435,200.48
Less credits—		
Items recovered from the Department of Education *re* Technical and Vocational Schools (Government Buildings Vote)		*2,749,089.87*
Items recovered *re* Vocational Training, Textbook Branch, Mediation Commission, etc. (Rental Vote)		*549,274.71*
		21,223,377.76

CAPITAL

Vote 229—Construction of Provincial Buildings (*see* expenditure by building)	(gross)	21,907,284.69
Vote 23155—British Columbia Building (Vancouver)—Special Fund, *Revenue Surplus Appropriation Act, 1969*		1,291,910.91
Less credits—		
Items recovered from the Department of Education *re* Technical and Vocational Schools		*1,759,663.56*
		21,439,532.04

SUMMARY

Gross expenditure, Department of Public Works—	
Administration and maintenance	24,521,742.34
Capital	23,199,195.60
Gross expenditure	47,720,937.94
Less credits—	
Maintenance	*3,298,364.58*
Capital	*1,759,663.56*
Net expenditure	42,662,909.80

VOTE 229—CONSTRUCTION OF PROVINCIAL BUILDINGS

Project No.	Description	Expenditures
	Abbotsford—	$
1-2-B	Government buildings—renovations	34,051.92
631-B	Fraser Valley Trout Hatchery	140,991.15
763-B	Tourist Information Centre	49,683.35
461-B-1	Alberni—Government buildings (renovations)	13,977.59
759-B	Barriere—Maintenance establishment, Department of Highways	57,479.07
26-5-B	Bella Coola—Accommodation for highways foreman	28,924.89
	Brannan Lake School—	
30-B-5	Maintenance building	24,434.71
30-B-8	Reroofing dormitories	16,149.65
	Burnaby—	
	Lower Mainland Regional Correctional Centre—	
11-0	Power supply system	155.80
11-4-B1	Exhaust system (carpenter shop)	12,163.00
39-B-62	Roads	3,218.79
39-B-73	Security	31,434.08
39-B-75	Licence-plate shop	2,704.93
39-B-76	East Wing Unit (plumbing)	52,448.03
20-70-B1	Highway yard-fencing	49.14
539-B	B.C. Youth Development Centre	26,946.22
656-B	Motor-vehicle Inspection Station	69,769.65
20-0-B1	West Complex, electrical primary distribution system (Willingdon Avenue)	5,969.73
20-50-B1	Dairy laboratory, Willingdon Avenue	1,506.56
699-B	Special Unit for Adolescents, Willingdon Avenue	46,267.01
748-B	Personal Care Home	781,516.21
716-B	Burns Lake—Provincial Government building	60,087.12
548-B	Charlie Lake—Alterations to Department of Mines	40,474.10
702-B	Clinton—Government Agent's residence	4,000.00
661-B	Coquitlam—Remand Centre	44,690.42
41-3-B1	Courtenay—Highways Office building	5,538.59
42-0	Cranbrook—Purchase of property	28,755.00
705-B	Creston—Wildlife Management Area Administration Centre	121,803.43
707-B	Dawson Creek—Provincial Government building	492,171.20
762-B	Douglas—Tourist Information Centre	20,203.50
	Duncan—	
468-B-1	Provincial buildings	10,612.44
754-B	RCMP detachment, renovations	2,489.70
54-22-B1	Elkford—Department of Highways yard site	101.50
52-1-B1	Enderby—Purchase of Highways yard site	232.00
	Essondale—	
5-B-121	Structural alterations, Zone 3	101,682.73
	Riverview—	
5-B-116	Landscaping, roads, parking, etc.	11,869.91
5-B-134	Fire-alarm system	75,452.17
5-B-138	West Lawn building, alterations	20,388.09
5-B-143	Essondale—fire protection and escapes	205,045.26
5-B-146	Conversion of boiler plant	362,473.08
5-B-147	Cable TV. connections	114.02
5-B-148	Renovations, Centre Lawn Building	65,322.06
5-B-149	Renovations, East Lawn Building	2,542.59
5-B-152	Crease Clinic	80,310.91
5-B-153	Laundry and stores building, renovations	25,786.94
12-54-B1	Patients residences	111,835.70
5-B-151	Valleyview—Hospital alterations	12,599.13
	Colony Farm—	
6-B-38	Dormitories	864.30
6-B-39	Riverside Building, alterations and extensions	42,233.42
14-0-B1	Drainage facilities	25,103.52

VOTE 229—CONSTRUCTION OF PROVINCIAL BUILDINGS—*Continued*

Project No.	Description	Expenditures
	Fort Nelson—	$
744-B	Living accommodation—Department of Health	5,452.59
745-B	Living accommodation—Department of Commercial Transport	4,511.83
708-B	Fort St. John—Provincial Government building	52,437.32
59-2-B1	Ganges—Provincial Government building, courtroom	136.21
	General—	
289-B	General expenses	408,000.27
289-B-1	Wages and expenses—casual design staff	868,442.21
384-B	Grounds improvement—various Government buildings	44,406.50
	Golden—	
61-0	Purchase of property (residence for District Superintendent, Department of Highways)	3,000.00
61-21	Visitor reception centre	2,544.72
700-B	Weigh-scale station	5,072.62
729-B	Highways maintenance establishment	446,379.26
62-5-B1	Grand Forks—Highway maintenance establishment	77,483.39
67-32-B1	Haig—Weigh-scale station	4,815.32
	Haney—	
10-71-B1	Gold Creek Camp (acquisition of trailer for caretaker)	9,552.90
10-91-B1	Purchase of property (site for Motor-vehicle Inspection Station)	13,045.96
	Correctional Institution—	
123-B-22	Roof replacement	41,472.00
123-B-23	Boiler renovations	1,888.34
	Alouette River Unit—	
10-0-B1	Site works	26,899.05
599-B-2	Administration building	9,050.79
	Kamloops—	
10-B-56	Structural alterations, Zone 4	52,904.44
17-0-B1	Site development roads and services, Columbia Street	72,020.07
701-B	Weigh-scale station	1,442.15
718-B	Provincial Government building	24,603.79
723-B	Personal Care Home (consultant's fee)	37,551.95
17-28-B1	Personal Care Home	603,447.53
	Regional Correctional Centre—	
733-B	Alterations	23,836.77
733-B-2	Recreational building	57,338.80
743-B	Public Works maintenance building	16,261.97
760-B	Kimberley—Provincial Government building	135,179.04
421-B	Kootenay—Trout Hatchery, Bull River improvements	3,290.39
79-2-B1	Lillooet—Highways maintenance establishment (replacement of heating system)	2,183.40
122-4	Meziadin Lake—Maintenance building, Department of Highways	121,308.02
	Nanaimo—	
202-B-2	Courthouse, renovations	26,726.72
711-B	Motor-vehicle Inspection Station	265,757.63
727-B	Department of Public Works Building, replacement of electrical and heating systems	70,904.17
	Nelson—	
641-B	Structural alterations, Zone 5	70,127.46
698-B	Provincial Government building	1,006,765.30
90-23	Purchase of property for Department of Public Works maintenance depot	47,031.80
	New Denver—	
519-B	Dormitory—alterations	21,691.46
728-B	Highways maintenance establishment	7,899.12
719-B	New Haven—Institute, Langley, B.C.	147,562.97

VOTE 229—CONSTRUCTION OF PROVINCIAL BUILDINGS—*Continued*

		$
	New Westminster—	
	Woodlands School—	
7-B-26	Motor Transport Branch, quonset hut conversion	39,187.96
7-B-40	Landscaping, fencing, and paving, etc.	2,740.44
7-B-49	Industrial therapy unit	342,943.74
7-B-51	Fire-alarm system	27,193.07
7-B-56	Renovations to Wing No. 2, Centre Building	5,848.24
7-B-57	Ventilation to 100 bed units	35,125.09
7-B-58	Academic and activity buildings	232,207.40
7-B-59	Playground	22,063.39
7-B-61	Fraserview Building, ventilation	2,879.15
13-0-B1	Nature Park	1,300.14
746-B	Courthouse—renovations	134,116.54
16-171	North Vancouver—Purchase of property	45,600.00
	Penticton—	
102-0	Purchase of property	14,195.40
102-6-B1	Highways establishment	117.20
715-B	Powell River—Provincial Government building	538,300.53
	Prince George—	
106-51-B1	Public Works maintenance building	8,867.85
201-B-2	Courthouse—roads and paving	26,751.79
479-B	Structural alterations, Zone 6	59,874.71
646-B	Library Development Commission	123,836.52
	Regional Correctional Centre—	
720-B	Services connection	23,152.91
720-B-1	Heating system	12,684.91
	Prince Rupert—	
724-B	Courthouse, heating system	8,587.90
742-B	Courthouse, new Court facilities and roof repairs	71,864.94
658-B	Quesnel—Highways maintenance establishment	7,447.93
452-B	Revelstoke—Courthouse renovations	154,355.26
659-B	Salmon Arm—Highways maintenance establishment	1,633.75
	Smithers—	
11B-2	Department of Highways establishment (heating system)	456.76
688-B	Provincial Government building	1,260,965.21
693-B	Storage building	5,884.29
122-4-B1	Stewart—Highways maintenance establishment	81,259.36
750-B	Surrey—Motor-vehicle Inspection Station	18,600.44
24-B-10	Terrace—(Skeenaview Hospital)—Alterations and renovations	236,225.77
750-B	Tête Jaune Cache—Highways maintenance establishment	388,571.32
717-B	Trail—Provincial Government building	110,107.94
	Tranquille—	
10-B-12	Water supply and sewage disposal	11,258.28
10-B-51	104-bed unit	30,466.03
10-B-57	Fire-alarm system, renovations	44,627.19
10-B-60	Greaves Building	16,950.22
15-20-B1	East Pavilion alteration	2,100.49
4-4	Trout Lake—Maintenance establishment, Department of Highways	29,530.73
126-61	Usk—Ferryman's accommodation	10,375.34
	Vancouver—	
16-25-B1	800 Cassiar Street (heating)	7,000.00
	Pearson TB. Hospital—	
16-39-B1	Fire-alarm system	538.74
31-B-9	Modifications	55,233.58
	Jericho Hill School—	
16-3-B1	Fire-alarm system	1,586.12
79-B-15	Principal's residence	3,863.97
79-B-16	Kitchen-dining-infirmary building	569,034.49
79-B-17	Renovations of existing building	4,340.23
79-B-18	Centennial gymnasium	265,697.50
79-B-19	Swimming-pool	48.79

VOTE 229—CONSTRUCTION OF PROVINCIAL BUILDINGS—*Continued*

Project No.	Description	Expenditures
	Vancouver—*Continued*	$
89-B-3	Provincial health building renovations	263,389.82
408-B	Structural alterations, Zone 2	72,836.77
546-B-2	Willow Chest Centre—renovations	703,371.66
610-B	Courthouse, courtroom facilities	23,165.97
634-B	British Columbia building	1,052,479.63
649-B	Roads, paths, and parking areas	6,969.72
721-B	Personal Care Home	774,655.37
747-B	Marpole Probation Office and Training Centre	50,830.84
	Vernon—	
411-B-1	Highways maintenance establishment	61,980.82
617-B	Courthouse—elevator and alterations	1,794.69
617-B-1	Provincial buildings (landscaping)	34,858.08
	Victoria—	
9-B-19	Vancouver Island Unit Regional Correctional Centre—renovations	205,919.83
19-0	Victoria area—purchase of property	4,047.55
19-4-B1	Alterations—finance building	7,196.35
19-98-B1	Central Microfilm Bureau—renovations and extensions	32,292.31
19-104-B1	Motor-vehicle Inspection Station	21,005.34
19-201	Glenshiel Hotel—purchase of property	592,858.95
19-499-B	Mobile home for safety inspection services (various zones)	57,307.34
39-0	Purchase of property, Colquitz	4,321.34
101-0	Department of Highways yards site, Saanich—purchase of property	36,102.17
211-B-1	Materials Testing Laboratory (extension)	12,920.30
292-B	Structural alterations, Zone 1	56,990.06
385-B	Parking facilities—Parliament Buildings	55,373.36
464-B	Eric Martin Institute	121,632.47
486-B	British Columbia Museum and Archives Building	73,408.26
487-B	Acquisition of property—Parliament Buildings Precinct	28,549.83
492-B	Motor-vehicle building—Data Processing Centre	26,192.79
518-B	Dogwood Building, 1019 Wharf Street	7,834.80
536-B	Parliament Buildings—new electrical distribution system	45,682.04
552-B	Windermere Building—purchase	59,500.00
554-B	Glendale Hospital	310,259.96
601-B-2	International Airport—roof repairs, hangars	8,214.60
629-B	Windermere Building, roofing, parapets, and renovations	13,634.01
690-B	Parliament Buildings, renovations	382,837.66
784-B	Langford—holding and fabricating shop	4,416.71
709-B	No. 4 temporary building (B.C. Hospital Insurance Services accommodation)—renovations	1,744.96
722-B	Personal Care Home	905,640.25
731-B	Cafeteria—renovations	107,394.22
732-B	Douglas Building renovations	112,044.39
738-B	Provincial Government Service Centre (ex-Hudson Bay Co. warehouse)	406,903.56
	Williams Lake—	
607-B-1	Courthouse	76,532.60
657-B	Highways maintenance establishment	5,724.62

VOCATIONAL SCHOOLS*

	B.C. Institute of Technology, Burnaby—	
401-B-1	Addition	100,582.03
401-B-2	Library	63,743.28
401-B-5	Underground power-distribution system	41,361.79

* Credits were received from the Department of Education to offset part of these expenditures.

VOTE 229—CONSTRUCTION OF PROVINCIAL BUILDINGS—*Continued*

Project No.	Description	Expenditures
	B.C. Institute of Technology, Burnaby—*Continued*	$
401-B-7	Roads and ancillary site work	98,174.10
401-B-8	Multipurpose student centre	135,320.68
401-B-9	Addition to Food Training Centre	13,958.82
	B.C. Vocational School, Burnaby—	
20-104-B1	Iron Workers Shop	236,801.96
20-105-B	Multidiscipline building	67,340.36
299-B-5	Heavy-duty diesel mechanics workshop	50,680.85
299-B-7	Temporary commercial classroom	1,773.71
299-B-8	Horticultural building	165,596.65
299-B-11	Air-compressor system	33,158.64
607-B	Vocational Teacher College	267.46
36-0-B1	B.C. Vocational School, Chilliwack—Phase 1—Preloading on site	176,879.68
481-B-3	B.C. Vocational School, Dawson Creek—Addition to food training area	639.46
	B.C. Vocational School, Kamloops—	
17-34-B1	Stores building	40,766.98
620-B-1	Vocational school	77,939.54
	B.C. Vocational School, Kelowna—	
72-7-B1	Classroom conversion	83,552.91
412-5-2	Cafeteria and training kitchen	38,967.50
	B.C. Vocational School, Nanaimo—	
89-6-B1	Fire-alarm system	5,544.54
89-18-B1	Steam-distribution system	12,696.74
89-21-B1	Welding shed extension	58.69
231-B-8	New workshop building	1,497.84
231-B-9	Welding shed	5,100.96
231-B-10	Electrical distribution	2,754.54
	B.C. Vocational School, Nelson—	
90-25-B1	Kootenay School of Art (renovation and extensions)	35,020.43
429-B-1	Central Receiving and Stores Depot	2,919.39
312-B-2	B.C. Vocational School, Prince George—Alterations to welding shop	167,739.66
	B.C. Vocational School, Terrace—	
126-21-B1	Workshop building	38,971.90
407-B-1	Dormitory and cafeteria	7,843.95
	B.C. Vocational School, Victoria—	
633-B	Workshop complex	5,428.89
633-B-1	Cafeteria building	53,459.24
		21,907,284.69

Renovations to Staff Cafeteria, Douglas Building, Victoria.

MAJOR TENDERS RECEIVED AND CONTRACTS AWARDED FOR BUILDINGS

Project No.	Location, Description of Work, and Names of Tenderers	Amount	Remarks
736-B	ABBOTSFORD		
	Site Works, Tourist Information Centre:	$	
	McGinnis Construction Ltd.	33,956.90	Awarded.
	Lindhout Brothers Contracting Ltd.	45,730.00	
	Quinlan Contracting and Equipment Ltd.	48,125.00	
1-2-B	*Alterations to Courthouse:*		
	Commonwealth Construction Co. Ltd.	43,317.00	
	Dogwood Construction Ltd.	46,700.00	
	Gadicke Construction Ltd.	68,414.00	
	Seaward Construction Ltd.	42,710.00	
	Onyx Contractors Ltd.	31,000.00	Awarded.
	BARRIERE		
759-B	*Electrical and Mechanical, Highways Equipment Building:*		
	Page Electric Ltd.	6,900.00	Awarded.
	North Kamloops Electric Co. Ltd.	8,127.00	
	Nordic Electric Ltd.	9,025.00	
	Waller Electric Co. Ltd.	10,250.00	
	Robert Crawford Electric	10,550.00	
	Ernie Funk Electric Ltd.	11,772.00	
	Stellar Heating and Plumbing Co. Ltd.	14,200.00	Awarded.
	Ivan's Plumbing and Heating Ltd.	15,768.00	
	Interior Plumbing and Heating Ltd.	16,872.00	
	McKinnon Plumbing and Heating Ltd.	18,811.00	
	Tecumseh Construction Service Ltd.	25,660.90	
	Nordic Electric Ltd. and Interior Plumbing and Heating Ltd. (combined)	25,647.00	
	BURNABY		
748-B	*Personal Care Home:*		
	Narod Construction Ltd.	1,278,950.00	Awarded.
	Janin Western Contractors Ltd. and Turnkey D.E.C.M. Ltd.	1,296,822.00	
	H. Haebler Co. Ltd.	1,313,300.00	
	Creighton Construction Ltd.	1,289,740.00	
539-B	*Television Distribution System, B.C. Youth Development Centre:*		
	Mainland Cable Services Ltd.	20,938.65	
	R.C.A. Limited	9,220.08	Awarded.
	BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY		
401-B-7	*Playing-field:*		
	Holland Landscapers Ltd.	36,800.00	
	Horley Developments Ltd.	47,255.00	
	Jeckway Landscaping Ltd.	48,466.00	
	Spra-Mac Landscaping Ltd.	35,990.00	Awarded.
	Walter Cobott Construction Ltd.	62,200.00	
401-B-1	*Additions to Computing Centre:*		
	Seaward Construction Ltd.	30,000.00	
	Stevenson Construction Co. Ltd.	24,838.00	Awarded.
	A. Hambleton and Son Construction Co. Ltd.	31,700.00	
401-B-7	*Road Widening, Phase 1:*		
	Stevenson Construction Co. Ltd.	22,500.00	
	Jack Cewe Ltd.	14,679.00	
	B.A. Blacktop Ltd.	13,500.00	
	Imperial Paving Ltd.	11,435.00	Awarded.
401-B-2	*Revision to Library Lighting:*		
	Canadian Electrical Construction Ltd.	39,681.00	
	Northmount Electric Ltd.	39,320.00	Awarded.
	Summit Electric Ltd.	71,610.00	
	Additions to Multipurpose Student Centre:		
	Stevenson Construction Co. Ltd.	60,697.00	
	Key Contractors Ltd.	59,995.00	Awarded.
401-B-9	*Additions to Cafeteria Building:*		
	United Power Ltd.	55,754.00	Awarded.
	Seaward Construction Ltd.	59,000.00	
401-B-2	*Alterations to Library, Production Studio:*		
	Ocean Park Construction Ltd.	61,643.00	
	Bengal Construction Ltd.	59,046.00	
	Seaward Construction Ltd.	53,900.00	Awarded.
	Commonweath Construction Co. Ltd.	54,070.00	

MAJOR TENDERS RECEIVED AND CONTRACTS AWARDED—*Continued*

Project No.	Location, Description of Work, and Names of Tenderers	Amount	Remarks
	BURNABY—*Continued*		
	BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY—*Continued*		
401-B-5	*Underground Electrical Distribution System (Substation M):*	$	
	Ocean Park Construction Ltd.	56,206.00	
	C. H. E. Williams Co. Ltd.	36,606.00	
	Commonwealth Construction Ltd.	52,482.00	Awarded.
401-B-7	*Ring Road and Ancillary Site Works:*		
	Standard General Construction Ltd.	79,190.00	
	Winvan Paving Division of Crystal City Construction Ltd.	73,848.00	
	B.A. Blacktop Ltd.	68,744.00	
	Imperial Paving Ltd.	74,117.00	
	Jack Cewe Ltd.	64,806.00	Awarded.
	Columbia Bitulithic Division of Ashland Oil Canada Ltd.	68,358.00	
	BRITISH COLUMBIA VOCATIONAL SCHOOL		
299-B-8	*Horticultural Building:*		
	Smith Brothers and Wilson Ltd.	149,375.00	Awarded.
	Shopland Construction Co. Ltd.	153,000.00	
	Dogwood Construction Ltd.	159,943.00	
	Stevenson Construction Co. Ltd.	152,800.00	
20-104-B	*Ironworkers Shop:*		
	Bird Construction Co. Ltd.	695,174.00	
	Pacific Coast Construction Ltd.	705,000.00	
	Narod Construction Ltd.	682,529.00	
	Creighton Construction Ltd.	721,153.00	
	Frank Stanzl Construction Ltd.	654,000.00	Awarded.
	Smith Brothers and Wilson Ltd.	683,683.00	
	Argus Installations Ltd.	716,720.00	
20-105-B	*Multidiscipline (Pre-cast Structure):*		
	Bordignon Masonry Ltd.	778,000.00	Awarded.
	Grimwood Construction Co. Ltd.	1,134,515.00	
	Con-Force Products Ltd.	905,000.00	
299-B-11	*Compressed Air System, Welding Shop:*		
	Whittick Mechanical Contractors Ltd.	31,850.00	Awarded.
	A. & A. Plumbing and Heating Ltd.	45,075.00	
	H. S. Crombie Ltd.	56,700.00	
	Westage Mechanical Contractors Ltd.	36,960.00	
	Mechanical Installations Co. Ltd.	41,877.00	
	LOWER MAINLAND REGIONAL CORRECTIONAL CENTRE		
39-B-76	*Renovations to Cell Block, Showers, Admitting Building:*		
	Pine Tree Construction Co. Ltd.	50,263.00	Awarded.
	Bengal Construction Co. Ltd.	55,419.00	
	Edward Epp and Associates	64,753.00	
	Van Construction Division of Van Vliet Construction Co. Ltd.	50,290.00	
	Hartley Leslie and Hartley Ltd.	55,050.00	
11-4-B1	*Dust Collection System, Carpenters Shop:*		
	Mainland Foundry and Engineering Ltd.	13,719.88	
	Jackson Sheet Metal and Roofing Co. Ltd.	13,596.00	
	Nelson Blower Co. Ltd.	16,102.00	
	Westgate Mechanical Contractors Ltd.	18,563.00	
	A. & A. Plumbing and Heating Ltd.	12,047.00	Awarded.
	BURNS LAKE		
716-B	*Provincial Government Building, Phase 1, Foundations:*		
	Dezell Construction Co. Ltd.	47,225.00	Awarded.
	CHILLIWACK		
36-0-B	*Vocational School Site, Preloading:*		
	Braun Excavating Ltd.	161,016.00	
	Miller Cartage and Contracting Ltd.	164,550.00	
	Unger Construction Co. Ltd.	221,100.00	
	Lindhout Brothers Contracting Ltd.	163,074.00	
	Conniston Construction Co. Ltd.	122,712.00	Awarded.
	COURTENAY		
41-3-B1	*Extension to Department of Highways Offices:*		
	McCurrie Construction Ltd.	59,428.00	Awarded.
	Georgian Bay Construction (B.C.) Ltd.	64,980.00	
	E. J. Hunter and Sons Ltd.	65,500.00	
	CRANBROOK		
—	*Sale of Crown Property:*		
	Peter Graham	12,540.00	
	John S. Ward	15,270.00	Awarded.
	Bernie J. Hamilton	9,200.00	
	Mrs. M. Reiss	11,264.00	

MAJOR TENDERS RECEIVED AND CONTRACTS AWARDED—*Continued*

Project No.	Location, Description of Work, and Names of Tenderers	Amount	Remarks
	CRANBROOK—*Continued*		
----	*Alterations to St. Eugene School:*	$	
	Boundary Industries Ltd.	204,700.00	
	Douillard Construction Co. Ltd.	185,870.00	
	Kirkwood Construction Co. Ltd.	199,451.00	Not awarded.
	DAWSON CREEK		
707-B	*Provincial Government Building, Phase 1, Excavation:*		
	Dyke Construction Ltd.	28,480.00	Awarded.
707-B	*Provincial Government Building, Phase 2:*		
	Dyke Construction Ltd.	1,358,000.00	Awarded.
	Douillard Construction Ltd.	1,374,000.00	
	Foundation Company of Canada Ltd.	1,384,000.00	
	Norman Nilsen Construction Ltd.	1,389,000.00	
	ESSONDALE		
	RIVERVIEW HOSPITAL		
5-B-146	*Boiler Plant Conversion, Phase 4:*		
	Argus Installations Ltd.	62,500.00	
	Mathios and Nichol Mech. Div. of Commonwealth Construction Limited	62,821.00	
	Comstock International Ltd.	74,030.00	
	A. & A. Plumbing and Heating Ltd.	65,710.00	
	Seaward Construction Ltd.	56,000.00	Awarded.
5-B-152	*Washroom Renovations, Crease Clinic:*		
	Ocean Park Construction Ltd.	80,947.00	
	Seaward Construction Ltd.	69,250.00	
	Pine Tree Construction	68,782.00	
	R. J. Booth Contracting Ltd.	60,806.00	Awarded.
	Hartley, Leslie and Hartley	70,480.00	
	Westgate Mechanical Contractors Ltd.	87,833.00	
5-B-143	*Fire Escapes, North Lawn Building:*		
	Seaward Construction Ltd.	18,800.00	
	Pine Tree Construction	18,177.00	
	Hartley, Leslie and Hartley Ltd.	17,100.00	Awarded.
	Ocean Park Construction Ltd.	21,963.00	
5-B-146	*Boiler Plant Conversion, Phase 5B:*		
	Polygon Metal Fabrication Ltd.	23,559.00	
	Merchant Contractors Ltd.	15,835.00	Awarded.
	Arrow Transfer Co. Ltd.	44,485.00	
	Seaward Construction Ltd.	28,198.00	
5-B-148	*Alterations to East and Centre Lawn Building:*		
	Timm Construction Ltd.	67,470.00	
	Ocean Park Construction Ltd.	66,215.00	
	Seaward Construction Ltd.	63,950.00	
	Hogan and McDonald Construction Ltd.	59,896.00	Awarded.
5-B-146	*Boiler Plant Conversion, Phase 5C:*		
	Seaward Construction Ltd.	119,000.00	Awarded.
	Ocean Park Construction Ltd.	178,600.00	
6-B-39	*Alterations and Additions, Riverside Activity Building, Colony Farm:*		
	McGuinness Construction Ltd.	627,459.00	Not awarded.
	Ratcliffe and Sons Construction Co. Ltd.	493,000.00	
12-54-B1	*Alterations to new Patients Residences:*		
	Ratcliffe and Sons Construction Co. Ltd.	340,430.00	Awarded.
	Ocean Park Construction Ltd.	366,342.00	
	Gadicke Construction Ltd.	383,700.00	
6-B-39	*Foundations, Activity Building, Colony Farm:*		
	Seaward Construction Ltd.	24,670.00	Awarded.
	Gadicke Construction Co. Ltd.	30,325.00	
	McGuinness Construction Ltd.	26,185.00	
	Argus Installations Ltd.	26,230.00	
	FORT ST. JOHN		
708-B	*Provincial Government Building, Phase 1, Cabin Moving:*		
	Strome Building and Moving Ltd.	21,445.00	Awarded.
	Provincial Government Building, Phase 2:		
	W.J.A. Construction Ltd.	1,074,200.00	Not awarded.
	GRAND FORKS		
62-5-B1	*Highways Maintenance Establishment:*		
	Creighton Construction Co. Ltd.	571,268.00	
	Grand Forks Cartage and Builders Ltd.	574,000.00	
	Boundary Industries Ltd.	566,000.00	Awarded.
	Kirkwood Construction Ltd.	582,299.00	
	Parkin Construction Ltd.	608,081.00	

MAJOR TENDERS RECEIVED AND CONTRACTS AWARDED—*Continued*

Project No.	Location, Description of Work, and Names of Tenderers	Amount	Remarks
	HAIG		
67-32-B1	*Weigh-scale Station:*	$	
	Allison Construction Co. Ltd.	65,260.00	
	D. C. Festing and Sons Ltd.	52,438.00	
	Quadrant Construction Ltd.	45,635.00	Awarded.
	HANEY		
10-0-B1	*Electrical Distribution, Alouette River Unit:*		
	Paragon Electric Co. Ltd.	24,672.00	
	Surfcrest Construction Ltd.	21,392.00	Awarded.
	Commonwealth Construction Co. Ltd.	31,145.00	
	KAMLOOPS		
620-B-1	*Electrical Service and Fire-alarm Systems, Cariboo College (B.C. Vocational School):*		
	Ricketts-Sewell Electric Ltd.	11,945.00	Awarded.
17-28-B1	*Demolition of old Home for Aged:*		
	Interior Plumbing and Heating Ltd.	69,506.00	Awarded.
17-28-B1	*Personal Care Home:*		
	Dawson and Hall Ltd.	2,229,829.00	
	Frank Stanzl Construction Ltd.	2,256,523.00	
	Bird Construction Ltd.	2,207,000.00	Awarded.
17-34-B1	*Stores Building, Cariboo College (B.C. Vocational School):*		
	Max Daburger Contracting Ltd.	218,700.00	
	Wilson and Dalgleish Contracting Ltd.	222,626.00	
	Pine Tree Construction Co. Ltd.	192,527.00	Awarded.
17-0-B1	*Site Development, Roads and Services, Columbia Street Precinct:*		
	Fownes Construction Co. Ltd.	549,000.00	
	Penkam Contracting Co. Ltd.	511,500.00	Awarded
	Metcalfe and Whelan Water System Ltd.	419,800.00	withdrawn.
15-20-B1	*Alterations to East Pavilion, Tranquille School:*		
	Max Daburger Contracting Ltd.	28,650.00	Not awarded.
743-B	*Maintenance Building, Department of Public Works:*		
	Wilson and Dalgleish Contracting (1970) Ltd.	68,670.00	
	McGinnis Contracting Ltd.	75,203.00	
	Perma Steel Engineering Ltd.	55,982.00	
	Norspan Building Systems (B.C.) Ltd.	47,578.00	Awarded.
	Interlox Building Systems (B.C.) Ltd.	67,556.00	
733-B-2	REGIONAL CORRECTIONAL CENTRE		
	Foundations Multi-use Building:		
	Max Daburger Contracting Ltd.	29,820.00	
	Wilson and Dalgleish Contracting (1970) Ltd.	35,431.00	
	Busch Construction Ltd.	47,129.00	
	Norspan Building Systems (B.C.) Ltd.	29,612.00	Awarded.
	Pentagon Construction (1969) Co. Ltd.	85,467.00	
	Pine Tree Construction Co. Ltd.	43,350.00	
	Electrical Distribution System:		
	Betts Electric Ltd.	13,400.00	
	Heal Electric Ltd.	17,488.00	
	Walker Contracting Ltd.	8,054.49	Awarded.
	Mechanical and Electrical Work, Multi-use Building:		
	Max Daburger Contracting Ltd.	66,150.00	Awarded.
	Wilson and Dalgleish Contracting (1970) Ltd.	75,050.00	
	Insulation of Multi-use Building:		
	Tidy Insulators Ltd.	10,986.00	Awarded.
	F. L. Drexel Co. Ltd.	17,854.00	
	H. L. Blackford Ltd.	17,600.00	
	Westech Plastics Ltd.	15,200.00	
	KELOWNA		
412-B-2	*Heating Main Replacement, Okanagan College (B.C. Vocational School):*		
	Unico Mechanical Installations Ltd.	27,200.00	Awarded.
	Barr and Anderson Ltd.	49,935.00	
72-7-B1	*Classroom Conversion, Okanagan College (B.C. Vocational School):*		
	Douillard Construction Ltd.	88,639.00	Awarded.

MAJOR TENDERS RECEIVED AND CONTRACTS AWARDED—*Continued*

Project No.	Location, Description of Work, and Names of Tenderers	Amount	Remarks
	KIMBERLEY		
760-B	*Provincial Government Building, Phase 1, Foundations:*	$	
	Walter Cabott Construction Ltd.	69,820.00	Awarded.
	LANGLEY		
719-B	*New Haven Correctional Centre, Phase 1, Preloading:*		
	Conniston Construction Ltd.	24,990.00	Awarded.
	Surfcrest Construction Co. Ltd.	25,550.00	
719-B	*New Haven Correctional Centre, Phase 2:*		
	Northern Construction Division of Morrison Knudson Inc.	1,472,000.00	
	Commonwealth Construction Co. Ltd.	1,471,637.00	
	Foundation Co. of Canada Ltd.	1,470,000.00	
	Creighton Construction Co. Ltd.	1,423,607.00	Not awarded.
	NANAIMO		
89-18-B1	*Boiler and Underground Steam-line, Malaspina College (B.C. Vocational School):*		
	R. A. Smith Plumbing and Heating Ltd.	16,785.00	
	I. Gordon Gas Co. Ltd.	11,800.00	Awarded.
	Archie Johnstone Plumbing and Heating Ltd.	13,248.00	
711-B	*Motor-vehicle Inspection Station:*		
	E. J. Hunter and Sons Ltd.	547,732.00	
	A. D. Storrie Construction Ltd.	566,300.00	
	D. Robinson Construction (1952) Ltd.	539,800.00	Awarded.
202-B-2	*Renovations, Phase 1, Courthouse:*		
	G. H. McIntosh Construction Ltd.	71,408.00	
	D. Robinson Construction (1952) Ltd.	74,799.00	
	T. & B. Construction Ltd.	81,600.00	Not awarded.
202-B-2	*Renovations, Phase 1, Courthouse (Recall):*		
	G. H. McIntosh Construction Ltd.	72,089.00	
	Cana Construction Co. Ltd.	59,450.00	Awarded.
	NELSON		
90-25-B1	*Melting Furnace, Selkirk College (B.C. Vocational School):*		
	Industrial Process Heat Engineering Ltd.	14,988.00	Awarded.
	NEW DENVER		
728-B	*Highways Maintenance Establishment:*		
	Boundary Industries Ltd.	610,000.00	
	Kenyon and Co. Ltd.	574,680.00	Awarded but
	Douillard Construction Ltd.	595,570.00	withdrawn.
	Fame Construction Ltd.	614,000.00	
	W. H. Tayler Construction Ltd.	593,939.00	
728-B	*Highways Maintenance Establishment (Recall):*		
	Fame Construction Ltd.	629,792.00	
	Barop Construction Ltd.	597,000.00	
	Kenyon and Company Ltd.	619,482.00	
	Boundary Industries Ltd.	588,000.00	
	Kirkwood Construction Ltd.	584,705.00	
	Ocean Park Construction Ltd.	549,000.00	Awarded.
	NEW WESTMINSTER		
746-B	*Courthouse Renovations:*		
	Seaward Construction Ltd.	76,000.00	
	Allan and Viner Construction Ltd.	116,690.00	Awarded.
7-B-26	WOODLANDS SCHOOL		
	Conversion of Motor Transport Building:		
	Hartley, Leslie and Hartley Ltd.	44,300.00	
	Pacific Coast Construction Co. Ltd.	39,900.00	
	Creighton Construction Co. Ltd.	49,500.00	
	Seaward Construction Ltd.	37,100.00	Awarded.
	Ocean Park Construction Ltd.	39,409.00	
	Timm Construction Co. Ltd.	40,870.00	
7-B-51	*Fire-alarm Systems:*		
	Mott Electric Ltd.	43,055.00	
	Northmount Electric Ltd.	44,998.00	
	I.C.R. Electric Ltd.	33,700.00	Awarded.

MAJOR TENDERS RECEIVED AND CONTRACTS AWARDED—*Continued*

Project No.	Location, Description of Work, and Names of Tenderers	Amount	Remarks
	NEW WESTMINSTER—*Continued*		
	WOODLANDS SCHOOL—*Continued*		
7-B-58	*Alterations, Academic and Activity Building:*	$	
	Allstate Construction Co. Ltd.	446,500.00	Awarded.
	Gadicke Construction Co. Ltd.	503,190.00	
	Ratcliffe and Sons Construction Co. Ltd.	512,000.00	
	Seaward Construction Ltd.	470,806.00	
7-B-56	*Transformer Room Alterations, Centre Building:*		
	Mott Electric Ltd.	28,264.00	Awarded.
	United Power Ltd.	27,997.00	
	Summit Electric Ltd.	28,980.00	
	J. H. McRae Co. Ltd.	33,721.00	
	PENTICTON		
761-B	*Renovations, Phase 1, Provincial Government Building:*		
	Centre City Construction Ltd.	188,300.00	
	W. H. Tayler Construction Ltd.	156,600.00	Awarded.
	PORT ALBERNI		
461-B-1	*Exterior Alterations, Provincial Government Building:*		
	Port Alberni Home Builders Ltd.	9,883.00	Awarded.
	Souther Construction (1968) Ltd.	10,180.00	
	System Housing and Development Ltd.	6,379.00	Withdrawn.
461-B-1	*Alterations, Phase 3, Provincial Government Building:*		
	Souther Construction (1968) Ltd.	17,636.00	
	System Housing and Development Ltd.	14,965.00	
	Port Alberni Home Builders Ltd.	11,816.00	Awarded.
	POWELL RIVER		
715-B	*Government Office Building, Phase 1, Site Works:*		
	Best Bulldozing Ltd.	11,491.00	Awarded.
715-B	*Provincial Government Building, Phase 2:*		
	Cana Construction Co. Ltd.	779,000.00	Awarded.
	Farmer Construction Ltd.	798,798.00	
	PRINCE GEORGE		
720-B	*Embankment Drainage Regional Correctional Centre:*		
	Triumph Drilling Ltd.	22,600.00	Awarded.
	PRINCE RUPERT		
742-B	*Reroofing Courthouse:*		
	Hay's Roofing and Sheet Metal Ltd.	39,800.00	
	Rupert Building Contractors Ltd.	34,164.00	Awarded.
	REVELSTOKE		
452-B-1	*Replacement of Heating System, Courthouse:*		
	Boundary Electric Ltd.	39,500.00	Awarded.
	Stan's Plumbing and Heating Ltd.	42,362.00	
452-B-1	*Renovations, Phase 2, Courthouse:*		
	Revelstoke Construction Co. Ltd.	149,219.00	Awarded.
	SMITHERS		
688-B	*Provincial Government Building, Phase 2:*		
	Janin Western Contractors Ltd. & Turnkey D.E.C.M. Ltd.	1,714,287.00	
	Walter Cabott Construction Ltd.	1,690,000.00	
	Cana Construction Co. Ltd.	1,635,000.00	Awarded.
	Commonwealth Construction Co. Ltd.	1,707,000.00	
	Douillard Construction Co. Ltd.	1,668,000.00	
688-B	*Passenger Elevator, Provincial Government Building:*		
	Otis Elevator Co. Ltd.	22,480.00	
	Montgomery Elevator Co. Ltd.	15,664.00	Awarded.
118-2-B1	*Heating System, Highways Establishment:*		
	Earlco Mechanical Contractors Ltd.	29,545.00	
	Spruceland Plumbing and Heating Ltd.	24,974.00	
	Dave's Plumbing and Heating (1962) Ltd.	23,300.00	Awarded.
	Smithers Plumbing and Heating Ltd.	29,253.00	
	TÊTE JAUNE CACHE		
730-B	*Water Supply, Highways Maintenance Establishment:*		
	Pine Tree Construction Ltd.	35,362.00	Awarded.
	Mechanical Installation Co. Ltd.	36,360.00	

MAJOR TENDERS RECEIVED AND CONTRACTS AWARDED—*Continued*

Project No.	Location, Description of Work, and Names of Tenderers	Amount	Remarks
	TERRACE		
24-B-10	*Alterations, Phase 2, Skeenaview Hospital:*	$	
	Pine Tree Construction Ltd.	176,342.00	Awarded.
126-21-B1	*Alterations to Workshop, B.C. Vocational School:*		
	Pine Tree Construction Ltd.	44,721.00	Awarded.
	Dave's Plumbing and Heating (1962) Ltd.	47,900.00	
	TRAIL		
717-B	*Provincial Government Building, Phase 1, Site Works:*		
	Fame Construction Ltd.	15,200.00	
	Kryski Brothers Contracting Ltd.	8,900.00	Awarded.
717-B	*Provincial Government Building, Phase 2:*		
	Rossi Construction Ltd.	1,368,000.00	
	Douillard Construction Ltd.	1,467,000.00	
	Creighton Construction Co. Ltd.	1,337,819.00	
	Kenyon and Co. Ltd.	1,332,064.00	Awarded.
	Fame Construction Co. Ltd.	1,377,657.00	
	TRANQUILLE		
10-B-61	*20-bed Units, Tranquille School:*		
	Parkins Construction Ltd.	1,904,385.00	
	Busch Construction Co. Ltd.	1,976,000.00	
	Max Daburger Contracting Ltd.	2,052,000.00	
	Bird Construction Co. Ltd.	1,889,348.00	
	Kenyon and Co. Ltd.	1,982,870.00	
	Foundation Co. of Canada Ltd.	1,909,000.00	
	Barop Construction Ltd.	1,985,000.00	
	Walter Cabott Construction Ltd.	1,864,000.00	Awarded.
	VANCOUVER		
721-B	*Personal Care Home:*		
	Narod Construction Ltd.	1,297,950.00	
	Janin Western Contractors & Turnkey D.E.C.M. Ltd. (Joint Venture)	1,270,750.00	Awarded.
	H. Haebler Co. Ltd.	1,295,700.00	
747-B	*Renovations to Probation Officers Training Centre:*		
	Onyx Contractors Ltd.	36,753.00	Awarded.
	Seaward Construction Ltd.	40,423.00	
----	*Garbage Disposal Services, Various Buildings in Greater Vancouver Area:*		
	Totem Disposal Co. Ltd.	56,132.00	
	Smith-Rite Disposal Ltd.	55,740.00	Awarded.
	Pacific Disposal Ltd.	63,600.00	
16-26-B1	*Elevator Replacement, 411 Dunsmuir Street:*		
	Otis Elevator Co. Ltd.	43,500.00	Not awarded.
79-B-15	*New Residence, Jericho Hill School:*		
	Pacific Coast Construction Ltd.	47,445.00	Not awarded.
16-39-B1	*Fire-alarm System, Pearson Hospital:*		
	Northmount Electric Ltd.	86,840.00	
	C. H. E. Williams Co. Ltd.	69,754.00	Awarded.
	Paragon Electric Co. Ltd.	98,962.00	
	Mott Electric Ltd.	107,283.00	
546-B-2	CARDIO-THORACIC FACILITIES, WILLOW CHEST CENTRE		
	Staircase and Renovations:		
	Bengal Construction Co. Ltd.	60,717.00	
	Allan and Viner Construction Ltd.	65,850.00	
	Pine Tree Construction Co. Ltd.	62,600.00	
	H. Haebler Co. Ltd.	58,459.00	Awarded.
	Metro Construction Co. Ltd.	58,600.00	
	Sundry Labour, Provision of:		
	Ocean Park Construction Ltd.	11,084.00	
	Handy-Andy Labour	8,172.00	
	Allan and Viner Construction Ltd.	7,564.00	Awarded.
	Mechanical and Plumbing Services:		
	A. & A. Plumbing and Heating Ltd.	263,894.00	
	McConaghy Mechanical Ltd.	251,495.00	
	Sengleson Installations Ltd.	238,940.00	Awarded.
	Boulevard Plumbing and Heating Ltd.	274,655.00	
	Electrical Installations:		
	Northmount Electric Ltd.	121,075.00	
	D. Thompson (Western) Ltd.	94,432.00	Awarded.

MAJOR TENDERS RECEIVED AND CONTRACTS AWARDED—*Continued*

Project No.	Location, Description of Work, and Names of Tenderers	Amount	Remarks
	VANCOUVER—*Continued*		
	CARDIO-THORACIC FACILITIES, WILLOW CHEST CENTRE—*Continued*		
	Plastering, Drywall, and Steel Studding:	$	
	Gallagher Brothers Contracting Ltd.	30,549.00	Awarded.
	George Montgomery and Sons Ltd.	31,367.00	
	Millwork:		
	Sigurdson Millwork Co. Ltd.	32,365.00	
	Nikolai Millwork Industries Ltd.	29,320.00	
	Bell-Par Industries	23,630.00	Awarded.
	Acoustical Ceilings:		
	Benton and Overbury Ltd.	13,088.00	
	B.C. Acoustical Specialties Ltd.	11,794.00	Awarded.
	Resilient Flooring:		
	F. M. Beatty Ltd.	16,889.26	Awarded.
	Lang Floors Ltd.	17,000.00	
634-B	BRITISH COLUMBIA LAW COURTS		
	Hoarding, Block 61:		
	Pacific Coast Construction Co. Ltd.	39,600.00	
	Mutual Construction Ltd.	34,700.00	
	H. Haebler Construction Ltd.	33,445.00	
	Janin Western Contractors Ltd.	30,948.00	Awarded.
	Commercial Construction Co. Ltd.	34,344.00	
	Aspen Construction Ltd.	39,920.00	
	Edward Epp & Associates	43,341.90	
	Ballarin Brothers Construction Ltd. (Incomplete)	32,965.00	
	Mod Industries Ltd.	39,482.00	
	Alterations and Additions, Fourth, Fifth and Sixth Floors, Pacific Centre:		
	Turnbull & Gale Construction Co. Ltd.	256,699.00	
	Franz Patella Contracting Ltd.	289,129.00	
	H. Haebler Construction Co. Ltd.	239,470.00	Awarded.
	Janin Western Contractors Ltd.	275,341.00	
	Halse, Martin Construction Co. Ltd.	252,914.00	
	Passenger Elevator and Link, Courthouse:		
	Montgomery Elevator Co. Ltd.	14,124.00	Awarded.
	Armor Elevator Co. Ltd.	22,606.00	
	Otis Elevator Co. Ltd.	16,000.00	
	Westinghouse Canada Ltd.	15,399.00	
	Video-display Systems:		
	Pacific Communications Ltd.	17,848.00	Awarded.
	Total Video Systems Ltd.	21,782.25	
	Renovations, Phase 8, and Structural Link, Courthouse:		
	Allan and Viner Construction Ltd.	421,960.00	
	Janin Western Contractors Ltd.	469,354.00	
	H. Haebler Co. Ltd.	401,500.00	Awarded.
	Alterations Small Claims Division, Richards Street:		
	Bengal Construction Co. Ltd.	69,203.00	
	H. Haebler Co. Ltd.	67,420.00	
	Allan and Viner Construction Co. Ltd.	64,580.00	Awarded.
	Furniture for Fifth and Sixth Floors, Pacific Centre:		
	Willson Business Services Ltd.	52,942.03	
	Pacific Office Interiors Ltd.	48,538.60	
	Coordinated Business Interiors Ltd.	43,737.85	Awarded.
	Alterations and Additions, Fourth Floor, Pacific Centre:		
	Sherwin McRae Contract Services Ltd.	57,900.00	
	Interior Dimensions Ltd.	54,397.00	
	Janin Western Contractors Ltd.	71,952.00	
	H. Haebler Co. Ltd.	48,374.00	Awarded.
	Franz Patella Contracting Ltd.	56,430.00	
89-B-3	PROVINCIAL HEALTH BUILDINGS		
	Renovations to Laboratories:		
	Janin Western Contractors Ltd. & Turnkey D.E.C.M. Ltd.	232,627.00	
	Commonwealth Construction Ltd.	240,364.00	
	Seaward Construction Ltd.	242,000.00	
	Van Construction Division of Van Vliet Construction Ltd.	211,216.00	Awarded.
	Alterations to Pharmacy:		
	Seaward Construction Ltd.	35,800.00	
	Van Construction Division of Van Vliet Construction Ltd.	30,622.00	Awarded.
	Double V Construction Co. Ltd.	34,848.00	
	Commercial Construction Co. Ltd.	41,000.00	
	Fire-alarm System:		
	Canadian Electrical Construction Ltd.	41,225.00	
	Van Construction Division of Van Vliet Construction Ltd.	40,599.00	Awarded.

MAJOR TENDERS RECEIVED AND CONTRACTS AWARDED—*Continued*

Project No.	Location, Description of Work, and Names of Tenderers	Amount	Remarks
	VERNON		
617-B	*Alterations, Phase 4, Courthouse:*	$	
	Gustavus Construction Ltd.	47,964.00	Not awarded.
	David Howrie Ltd.	47,599.00	
	VICTORIA		
19-98-B1	*Renovations and Extension to Central Microfilm Bureau:*		
	E. J. Hunter and Sons Ltd.	29,630.00	Awarded.
	Dalziel Construction Ltd.	32,656.00	
	H. E. Fowler and Sons Ltd.	32,965.00	
19-4-B1	*Alterations, Phase 1, Finance Building:*		
	Dura Construction Ltd.	55,590.00	
	Cana Construction Ltd.	53,438.00	Awarded.
	Dalziel Construction Ltd.	58,379.00	
	Farmer Construction Ltd.	55,822.00	
486-B	*Alterations to Central Heating Plant:*		
	Australian Construction Ltd.	38,890.00	
	Cana Construction Ltd.	28,500.00	Awarded.
	Dalziel Construction Ltd.	29,878.00	
	E. J. Hunter and Sons Ltd.	33,523.00	
518-B	*Alterations to Dogwood Building:*		
	Dura Construction Ltd.	19,690.00	
	Cana Construction Ltd.	17,800.00	
	Australian Construction Ltd.	21,700.00	
	E. J. Hunter and Sons Ltd.	16,933.00	
	W. Campbell Ltd.	16,686.00	Awarded.
464-B	ERIC MARTIN INSTITUTE		
	Interconnecting Ducts:		
	H. E. Fowler and Sons Ltd.	10,120.00	
	Bescor Electric Ltd.	11,923.00	
	W. Campbell Ltd.	8,986.00	
	Cana Construction Co. Ltd.	8,950.00	Awarded.
	Alterations to Sixth Floor:		
	Cana Construction Co. Ltd.	20,222.00	
	H. E. Fowler and Sons Ltd.	17,751.00	
	W. Campbell Ltd.	16,786.00	Awarded.
	Minor Alterations:		
	H. E. Fowler and Sons Ltd.	23,874.00	Awarded.
	W. Campbell Ltd.	24,526.00	
	Dura Construction Ltd.	29,476.00	
738-B	PROVINCIAL GOVERNMENT SERVICE CENTRE		
	Alterations:		
	Farmer Construction Ltd.	199,520.00	
	W. Campbell Ltd.	193,564.00	
	Herb Bate Ltd.	195,228.00	
	H. E. Fowler and Sons Ltd.	184,610.00	Awarded.
	Cana Construction Ltd.	220,283.00	
	Paving and Site Works:		
	O.K. Paving Co. Ltd.	58,995.00	Awarded.
	Victoria Paving Co. Ltd.	59,747.00	
	Addition:		
	M. P. Paine Co.	175,700.00	
	Herb Bate Ltd.	175,708.00	
	K. C. Johnson Construction Ltd.	162,341.00	
	Dalziel Construction Ltd.	159,898.00	Awarded.
	DOUGLAS BUILDING		
732-B	*Basement Alterations:*		
	G. H. Wheaton Ltd.	15,312.00	
	H. E. Fowler and Sons Ltd.	13,734.00	
	Cana Construction Ltd.	14,981.00	
	Dalziel Construction Ltd.	13,490.00	Awarded.
	W. Campbell Ltd.	14,084.00	
731-B	*Cafeteria Alterations, Phase 1:*		
	Cana Construction Ltd.	65,683.00	
	H. E. Fowler and Sons Ltd.	68,835.00	
	Dalziel Construction Ltd.	62,396.00	Awarded.
731-B	*Cafeteria Alterations, Phase 2, Michigan Annex:*		
	Cana Construction Ltd.	19,439.00	Awarded.
	H. E. Fowler and Sons Ltd.	20,594.00	
	E. J. Hunter and Sons Ltd.	20,645.00	
731-B	*Cafeteria Alterations, Phase 3, Kitchen:*		
	Dalziel Construction Ltd.	68,797.00	Awarded.
	Cana Construction Ltd.	69,300.00	

MAJOR TENDERS RECEIVED AND CONTRACTS AWARDED—*Continued*

Project No.	Location, Description of Work, and Names of Tenderers	Amount	Remarks
	VICTORIA—*Continued*		
	DOUGLAS BUILDING—*Continued*		
732-B	*Occupational Health Unit:*	$	
	Dura Construction Ltd.	29,274.00	
	Dalziel Construction Ltd.	23,878.00	Awarded.
	W. Campbell Ltd.	25,396.00	
690-B	PARLIAMENT BUILDINGS		
	Renovations, Rooms 126 and 127:		
	H. E. Fowler and Sons Ltd.	19,945.00	
	Dalziel Construction Ltd.	20,247.00	
	Cana Construction Ltd.	20,413.00	
	Farmer Construction Ltd.	19,300.00	
	E. J. Hunter and Sons Ltd.	21,610.00	Not awarded.
	Alterations and Renovations, Third Floor, Legislative Library:		
	Farmer Construction Ltd.	13,885.00	Awarded.
	Dalziel Construction Ltd.	14,665.00	
	H. E. Fowler and Sons Ltd.	14,879.00	
	Cana Construction Ltd.	14,981.00	
	E. J. Hunter and Sons Ltd.	17,638.00	
	Elevator:		
	Montgomery Elevator Co. Ltd.	43,266.00	
	Otis Elevator Co. Ltd.	41,355.00	Awarded.
	VICTORIA/COLQUITZ		
9-B-19	*Renovations, Vancouver Island Correctional Centre:*		
	E. J. Hunter and Sons Ltd.	227,200.00	
	H. E. Fowler and Sons Ltd.	229,777.00	
	Cana Construction Ltd.	212,800.00	Not awarded.
633-B-1	*Landscaping and Irrigation, Camosun College (B.C. Vocational School):*		
	Kimoff Landscaping Ltd.	16,893.80	Awarded.
	Jack's Landscape and Gardener	39,620.00	
	Spra-Mac Landscaping Ltd.	25,250.00	
554-B	*Playground, Glendale Hospital (Glendale Lodge):*		
	Kimoff Landscaping Ltd.	48,045.00	Awarded.
	Cana Construction Ltd.	52,000.00	
	Walter Cabott Construction Co.	72,172.00	
554-B	*Kitchen Alterations Glendale Hospital (Glendale Lodge):*		
	H. E. Fowler and Sons Ltd.	43,444.00	Awarded.
	Cana Construction Ltd.	43,666.00	
722-B	*Food Service Equipment, Personal Care Home (Tillicum Lodge):*		
	Russell Food Equipment Ltd.	59,663.81	Awarded.
	Terminal Sheet Metal Ltd.	65,683.25	
722-B	*Fire Main, Personal Care Home (Tillicum Lodge):*		
	A. J. Barr Ltd.	23,785.00	
	Webb and Trace Ltd.	12,910.00	Awarded.
	Donaldson Engineering and Construction Ltd.	28,464.00	
	Wheaton Construction Ltd.	14,208.00	
	Herb Bate Ltd.	31,311.00	
	Norseman Construction and Engineering Ltd.	22,985.00	
	WELLINGTON		
30-B-8	*Reroofing Brannan Lake School:*		
	Pacific Sheet Metal (1965) Ltd.	13,904.00	Awarded.
	Hay's Roofing and Sheet Metal Ltd.	14,800.00	

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